

APPENDIX F

EMERGENCY INFORMATION

APPENDIX F

Exhibits

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- F-7 MEMORANDUM OF AGREEMENT WITH EMERGENCY RESPONSE AGENCIES

EXHIBIT F-1

EMERGENCY INFORMATION FOR SERVICE CENTER

Safety-Kleen Systems Inc., North Las Vegas, Nevada

Emergency Information

A. Facility Emergency Coordinator

Name: Scott Packer

Address: 192 Vine Cliff Ave.
Henderson, NV 89002

Phone: H-(702) 480-9627
W-(702) 657-2300
C-(702) 296-8096

Alternate Coordinators

Name: Troy Russell

Address: 2556 Belgreen Street
Las Vegas, NV 89135

Phone: H- (702) 244-0419
W-(702) 657-2300
C-(702) 343-4073

B. Emergency Notification Phone Numbers

Internal – Safety-Kleen Environmental Department
24 – Hour Emergency Number (800) 468-1760

External – National Response Center
24 – Hour Emergency Number (800) 424-8802

North Las Vegas Office of Emergency Management
8:00 AM to 5:00 PM (702) 633-1125

After 5:00 PM (702) 303-0315

C. Emergency Team to Be Notified

North Las Vegas Fire Station (702) 633-1102 or 911

North Las Vegas Police Department (702) 649-9111 or 911

North Vista Hospital Medical Center (702) 649-7711 or 911

Infotrac 24–Hour Emergency Number (800) 468-1760

To Place an Intercom Call: Pick up phone, press button left line, and dial 6 for intercom

EXHIBIT F-2

EXAMPLE EMERGENCY EQUIPMENT LIST

EXAMPLE EMERGENCY EQUIPMENT LIST

The following equipment shall be located in the locker room area and the supply checked monthly:

Gloves - Gloves which are compatible with parts washer solvents are to be used when handling the solvents.

Safety Glasses or Face Mask - Whichever the worker prefers, is to be worn when loading or unloading the solvent.

Plastic Aprons - Are available for the situations where a solvent may get on the workers clothing.

Shovels - In the event of a spill, shovels will be used to pick-up contaminated sorbent material.

Decontamination of all equipment is accomplished by washing with soap and water.

Eye Wash Stand - The eye wash stations are at several locations located at the Service Center, as shown on Figure D-5. The workers should try the stand and be familiar with its preparation. The eye wash stand should be checked once a week for operation.

Showers-- Located in locker room area. Showers should be checked periodically to ascertain that they are operational. Eye wash stands are equipped with a hand-held spray nozzle, which may also be used as a shower.

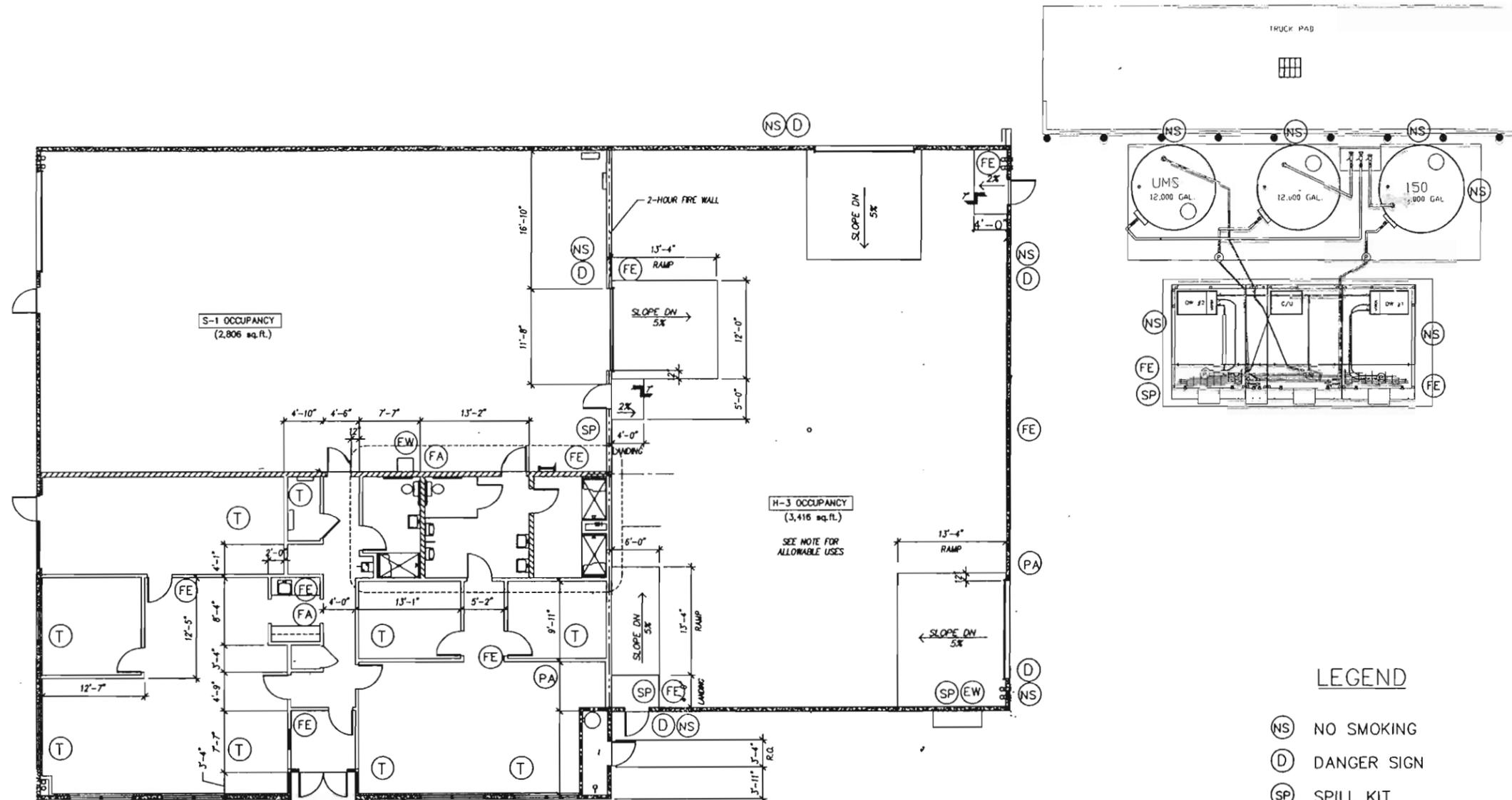
Ventilation--Any area that is closed and collects vapors should be avoided or equipped with proper fans to ensure adequate ventilation.

Fire Extinguisher—The service center should have a minimum of two 10-pound ABC extinguishers, located at the points where solvents are transferred. An ABC extinguisher is a universal system used on paper, wood and electrical, as well as solvent fires. The extinguishers must be full and carry an inspection tag.

Absorbent Material—An adequate supply (200 sheets, 2 bales and/or vermiculate) should be on hand to handle small spills. Located in the loading and unloading area and warehouse. In the event of a spill, contaminated absorbent material will be placed in drums and handled as hazardous waste.

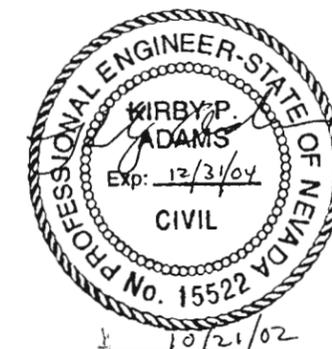
EXHIBIT F-3

EXAMPLE EMERGENCY EQUIPMENT PLAN



LEGEND

- (NS) NO SMOKING
- (D) DANGER SIGN
- (SP) SPILL KIT
- (FE) FIRE EXTINGUISHER
- (FA) FIRST AID
- (T) TELEPHONE
- (PA) PANIC ALARM/EMERGENCY SHUT-OFF SWITCH
- (EW) EYE WASH STATION



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NOTES:
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REVISIONS				
NO.	DESCRIPTION	BY	DATE	
0	EMERGENCY EQUIPMENT PLAN	JCH/GS	07/22/02	

CONSULTANT/ENGINEER:

 M T I
 Accclaim Materials Testing & Inspection, LLP
 3900 Emerald Avenue, Suite A
 Las Vegas, NV 89122
 (702) 938-0650 • Fax (702) 938-0649

PROPRIETARY STATEMENT
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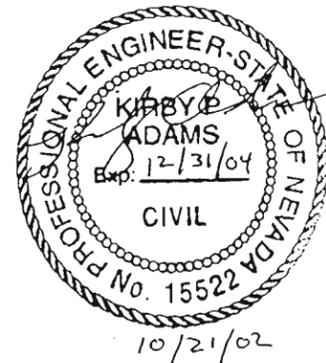
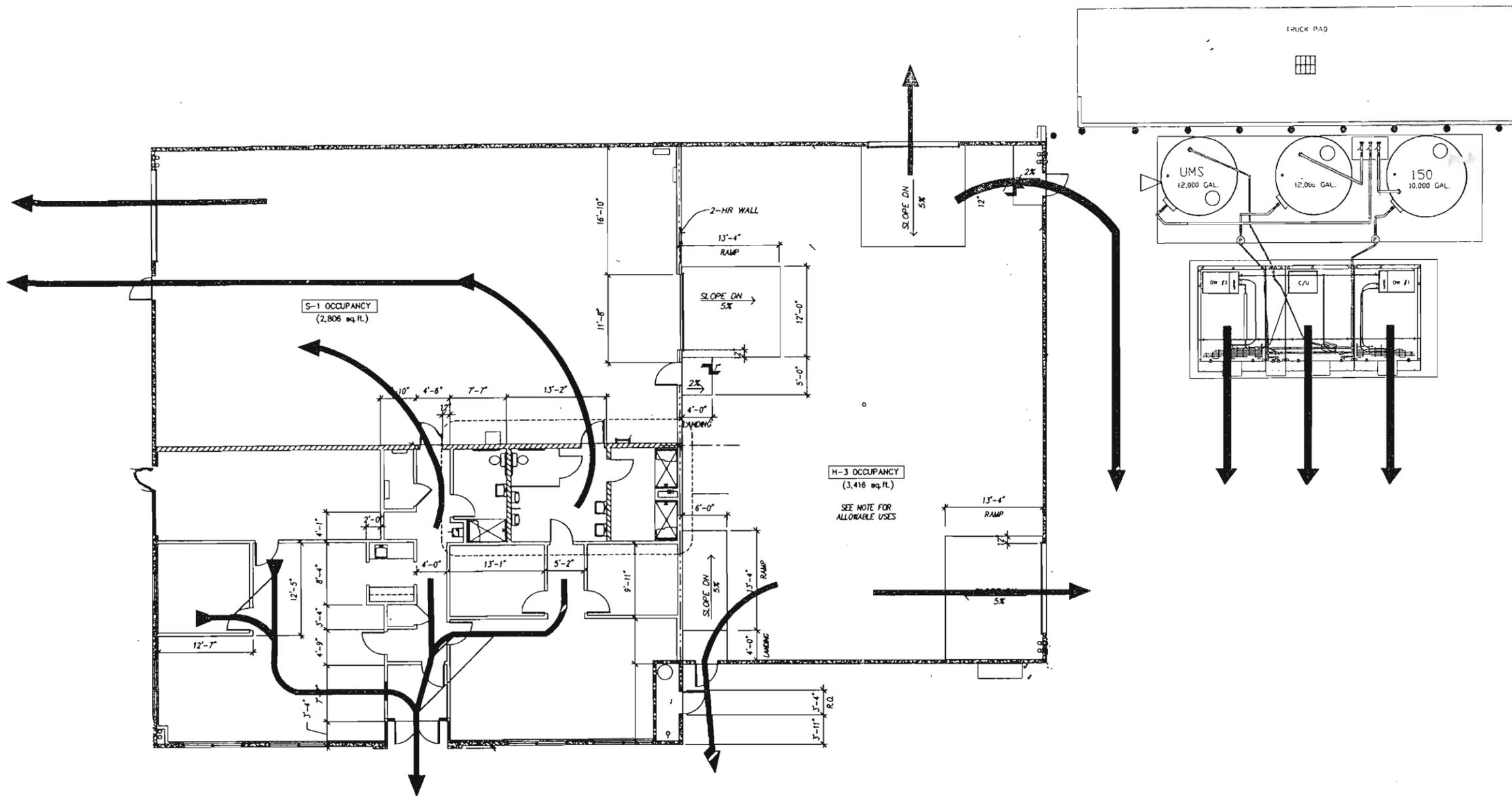


DWG TITLE:
 EMERGENCY EQUIPMENT PLAN
 4582 DONOVAN WAY

CAD FILE: 964-0200PB702-00	OPERATION APPROVED -	DATE: 07/22/02
SCALE: N.T.S.	DRAWN/CHECKED/ APPROVED JKM/GS	SHEET NUMBER -
LOCATION: NORTH LAS VEGAS, NV	DRAWING NO: 974-0200-PB-702	REVISION 0

EXHIBIT F-4

EXAMPLE EMERGENCY EVACUATION PLAN



NOTES:
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NOTES:
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REVISIONS					
NO.	DESCRIPTION	BY	PROLIM. APPR.	PROCESS APPR.	DATE
0	EMERGENCY EVACUATION ROUTE	JAK	GS	-	07/22/02

CONSULTANT LOGO

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DWG TITLE: EVACUATION PLAN 4582 DONOVAN WAY			
CAD FILE: 964-0200PB701-00	OPERATION APPROVED: -	DATE: 07/22/02	SHEET NUMBER: -
SCALE: 1/8" = 1'-0"	DRAWN BY: JKM	CHECKED BY: GS	APPROVED BY: -
LOCATION: LAS VEGAS, NV	DRAWING NO. 964-0200-PB-701	REVISION: 0	

EXHIBIT F-5

MATERIAL SAFETY DATA SHEETS

Exhibits

1. 150 Solvent – Virgin and recycled
2. Immersion Cleaner – all types
3. Aqueous Cleaning Solvent – MPC Concentrate
4. Aqua Works Cleaning Solvent – Combo Cleaner
5. Lacquer Thinner



**SAFETY-KLEEN PREMIUM SOLVENT
SAFETY-KLEEN PREMIUM GOLD SOLVENT
(VIRGIN AND RECYCLED)
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SAFETY-KLEEN PREMIUM SOLVENT
SAFETY-KLEEN PREMIUM GOLD SOLVENT
(VIRGIN AND RECYCLED)

SYNONYMS: Parts Washer Solvent; Petroleum Distillates; Petroleum Naphtha;
Naphtha, Solvent; Stoddard Solvent; Mineral Spirits.

PRODUCT CODE: 6605, 6616

PRODUCT USE: Cleaning and degreasing metal parts.
If this product is used in combination with other products, refer to the
Material Safety Data Sheet for those products.

These numbers are for
emergency use only. If
you desire non-emergency
product information,
please call a phone
number listed below.

**24-HOUR EMERGENCY PHONE NUMBER
MEDICAL AND TRANSPORTATION (SPILL):**

1-800-468-1760

SUPPLIER: Safety-Kleen Systems, Inc.
5360 Legacy Drive
Building 2, Suite 100
Plano, Texas 75024
USA
1-800-669-5740
www.Safety-Kleen.com

TECHNICAL INFORMATION: 1-800-669-5740 Press 1 then Enter 7500

MSDS FORM NUMBER: 82658

ISSUE: November 30, 2009

ORIGINAL ISSUE: January 26, 1995

SUPERSEDES: August 21, 2009

PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

**SAFETY-KLEEN PREMIUM SOLVENT
SAFETY-KLEEN PREMIUM GOLD SOLVENT (VIRGIN AND RECYCLED)
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

WT%	NAME	SYNONYM	CAS NO.	OSHA PEL**		ACGIH TLV®		LD ^a	LC ^b
				TWA	STEL	TWA	STEL		
				ppm	ppm	ppm	ppm		
100	Distillates (petroleum), hydrotreated light	N. Av.	64742-47-8	500 ^c ppm 2900 ^c mg/m ³	N. Av.	100 ^c	N. Av.	5000 ^c mg/kg	5500 ^c mg/m ³ /4h

**OSHA Final PEL value (enforceable) Some States have adopted more stringent values.

N. Av. = Not Available
^aOral-Rat LD₅₀

^bInhalation-Rat LC₅₀

^cBased on Stoddard Solvent

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Liquid, clear, colorless to pale yellow, mild hydrocarbon odor.

WARNING!

PHYSICAL HAZARDS

Combustible liquid and vapor.

HEALTH HAZARDS

May be harmful if inhaled.

May irritate the respiratory tract (nose, throat, and lungs), eyes, and skin

May be harmful if swallowed.

Contains material that may cause central nervous system and kidney damage.

ENVIRONMENTAL HAZARDS

Not toxic to aquatic life.

SAFETY-KLEEN PREMIUM SOLVENT
SAFETY-KLEEN PREMIUM GOLD SOLVENT (VIRGIN AND RECYCLED)
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

POTENTIAL HEALTH EFFECTS

INHALATION (BREATHING): High concentrations of vapor may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

EYES: May cause irritation.

SKIN: May cause irritation. Not likely to be absorbed in harmful amounts.

INGESTION (SWALLOWING): May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under **INHALATION (BREATHING)**. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing respiratory tract (nose, throat, and lungs), central nervous system, kidney, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC: Prolonged or repeated inhalation may cause toxic effects as noted under **INHALATION (BREATHING)**. Prolonged or repeated exposure may cause central nervous system and kidney damage. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, swelling (dermatitis) and/or burns..

CANCER INFORMATION: No known carcinogenicity. For more information, see **SECTION 11: CARCINOGENICITY**.

Also see **SECTION 15: CALIFORNIA**.

POTENTIAL ENVIRONMENTAL EFFECTS

Product is not toxic to aquatic life. Also see **SECTION 12: ECOLOGICAL INFORMATION**.

SECTION 4: FIRST AID MEASURES

INHALATION (BREATHING): Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

**SAFETY-KLEEN PREMIUM SOLVENT
SAFETY-KLEEN PREMIUM GOLD SOLVENT (VIRGIN AND RECYCLED)
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

EYES: If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

SKIN: Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists.

INGESTION (SWALLOWING): Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIANS: Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

SECTION 5: FIRE FIGHTING MEASURES
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FLASH POINT: 148°F (64°C) (approximately) Tag Closed Cup

FLAMMABLE LIMITS IN AIR: **LOWER:** 0.7 VOL% (minimum) **UPPER:** 5 VOL% (maximum)

AUTOIGNITION TEMPERATURE: 480°F (249°C) (minimum)

HAZARDOUS COMBUSTION PRODUCTS: Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide and unidentified organic compounds.

CONDITIONS OF FLAMMABILITY: Heat, sparks, or flame.

EXTINGUISHING MEDIA: Carbon dioxide, regular foam, dry chemical, water spray, or water fog

SAFETY-KLEEN PREMIUM SOLVENT

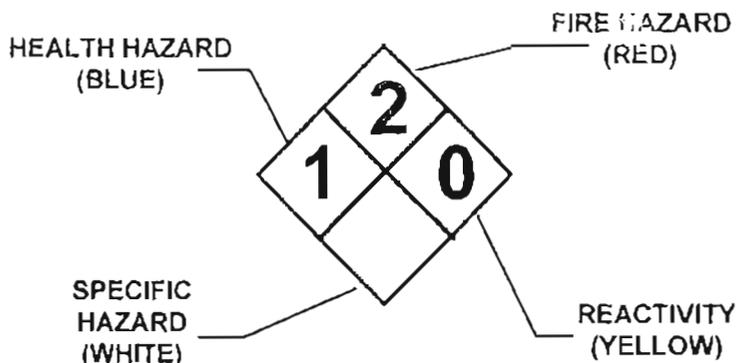
SAFETY-KLEEN PREMIUM GOLD SOLVENT (VIRGIN AND RECYCLED)

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

NFPA 704

HAZARD IDENTIFICATION:

This information is intended solely for the use by individuals trained in this system.



FIRE FIGHTING INSTRUCTIONS:

Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

FIRE AND EXPLOSION HAZARDS:

Vapor explosion hazard indoors, outdoors, or in sewers. Vapors may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire hazard. Heated containers may rupture or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact. Products may be sensitive to static discharge, which could result in fire or explosion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

**SAFETY-KLEEN PREMIUM SOLVENT
SAFETY-KLEEN PREMIUM GOLD SOLVENT (VIRGIN AND RECYCLED)
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

SECTION 7: HANDLING AND STORAGE

HANDLING: Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.

SHIPPING AND STORING: Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

EYE PROTECTION: Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

SAFETY-KLEEN PREMIUM SOLVENT
SAFETY-KLEEN PREMIUM GOLD SOLVENT (VIRGIN AND RECYCLED)
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SKIN PROTECTION: Where skin contact is likely, wear neoprene, nitrile, or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended.

To avoid prolonged or repeated contact with products where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

PERSONAL HYGIENE: Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with this product.

OTHER PROTECTIVE EQUIPMENT: Where spills and splashes are likely, facilities storing or using these products should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, APPEARANCE, AND ODOR: Liquid, clear, colorless to pale yellow, mild hydrocarbon odor.

ODOR THRESHOLD: 30 ppm (based on Stoddard Solvent)

MOLECULAR WEIGHT: Not available.

SPECIFIC GRAVITY: 0.77 to 0.80 at 60°F (15.6°C) (water = 1)

DENSITY: 6.4 to 6.7 LB/US gal (770 to 800 g/l)

VAPOR DENSITY: 5 (air = 1) (approximately)

VAPOR PRESSURE: 0.2 mm Hg at 68°F (20°C) (approximately)
0.6 mm Hg at 100°F (37°C) (approximately)

BOILING POINT: 350°F (177°C) (initial)

FREEZING/MELTING POINT: -45°F (-43°C) (maximum)

pH: Not applicable.

EVAPORATION RATE: 0.1 (butyl acetate = 1) (based on Stoddard Solvent)

**SAFETY-KLEEN PREMIUM SOLVENT
SAFETY-KLEEN PREMIUM GOLD SOLVENT (VIRGIN AND RECYCLED)
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

SOLUBILITY IN WATER: Insoluble.

FLASH POINT: 148°F (64°C) (approximately) Tag Closed Cup

FLAMMABLE LIMITS IN AIR: **LOWER:** 0.7 VOL% (minimum) **UPPER:** 5 VOL% (maximum)

AUTOIGNITION TEMPERATURE: 480°F (249°C) (minimum)

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures. Avoid heat, sparks, or flame.

INCOMPATIBILITY: Avoid acids, alkalies, oxidizing agents, reducing agents, or reactive halogens.

REACTIVITY: Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal temperatures and pressures. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.**

SECTION 11: TOXICOLOGICAL INFORMATION

SENSITIZATION: Based on best current information, there is no known human sensitization associated with this product.

MUTAGENICITY: Based on best current information, there is no known mutagenicity associated with this product.

CARCINOGENICITY: Based on best current information, there is no known carcinogenicity as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

Also see **SECTION 15: CALIFORNIA.**

**SAFETY-KLEEN PREMIUM SOLVENT
SAFETY-KLEEN PREMIUM GOLD SOLVENT (VIRGIN AND RECYCLED)
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

REPRODUCTIVE TOXICITY: Based on best current information, there is no known reproductive toxicity associated with this product.

Also see **SECTION 15: CALIFORNIA.**

TERATOGENICITY: Based on best current information, there is no known teratogenicity associated with this product.

TOXICOLOGICALLY SYNERGISTIC PRODUCT(S): Based on best current information, there are no known toxicologically synergistic products associated with this product.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: A Static Acute Bioassay as per California Department of Fish and Game WPCL was done using fathead minnows and up to 750 ppm of the products in water. The material passed the bioassay.

OCTANOL/WATER PARTITION COEFFICIENT: Not available.

VOLATILE ORGANIC COMPOUNDS: 100 WT%; 6.4 to 6.7 LB/US gal; 770 to 800 g/l
As per 40 CFR Part 51.100(s).
Non-Photochemically Reactive
VOC Vapor Pressure Approx 0.2 mmHg @20°C

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

USEPA WASTE CODE(S): Not regulated.
Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product.

**SAFETY-KLEEN PREMIUM SOLVENT
SAFETY-KLEEN PREMIUM GOLD SOLVENT (VIRGIN AND RECYCLED)
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

SECTION 14: TRANSPORT INFORMATION

DOT: **Bulk Packages (>119 Gallons):**
Shipping Name: Combustible liquid, n.o.s. (petroleum naphtha) **UN/NA**
#: NA1993. **Hazard Class:** Combustible liquid. **Packing Group:** III
Required Placards: Class 3, NA1993

Non-bulk Packages (<120 Gallons):
Shipping Name: Cleaning compounds (Petroleum naphtha) (Not US
DOT regulated). **UN/NA #:** None. **Hazard Class:** None **Packing**
Group: None **Required Label(s):** None

TDG: **Shipping Name:** Non-regulated goods.

EMERGENCY RESPONSE 128
GUIDE NUMBER: Reference *North American Emergency Response Guidebook*

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

SARA SECTIONS 302 AND 304: Based on the ingredients listed in **SECTION 2**, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA SECTIONS 311 AND 312: This product poses the following health hazards as defined in 40 CFR Part 370 and are subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):
Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
Fire Hazard

SARA SECTION 313: This product does not contain "toxic" chemicals subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

CERCLA: Based on the ingredient listed in **SECTION 2**, this product does not contain any "hazardous substances" listed pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

SAFETY-KLEEN PREMIUM SOLVENT
SAFETY-KLEEN PREMIUM GOLD SOLVENT (VIRGIN AND RECYCLED)
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

TSCA: The component of this product is listed on, or is automatically included as "naturally occurring chemical substances" on, or is exempted from the requirement to be listed on, the TSCA Inventory.

CALIFORNIA: This product may contain a detectable amount of benzene CAS 71-43-2, p-dichlorobenzene CAS 106-46-7, ethylbenzene CAS 100-41-4, and naphthalene CAS 91-20-3. **WARNING:** These chemicals are known to the State of California to cause cancer.

This product may contain a detectable amount of benzene CAS 71-43-2 and toluene CAS 108-88-3. **WARNING:** These chemicals are known to the State of California to cause birth defects or other reproductive harm.

CANADIAN REGULATIONS

This product have been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

WHMIS: Class B3 - Combustible Liquid
Class D2B - Irritating to eyes and skin.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): The component of this product is listed on, or is automatically included as "substance occurring in nature" on, or is exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

SECTION 16. OTHER INFORMATION

REVISION INFORMATION: Section 5, Section 9, Autoignition Temperature.

LABEL/OTHER INFORMATION: These products are United States Department of Agriculture (USDA) approved and ETL classified.

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.



**IMMERSION CLEANER AND COLD PARTS CLEANER
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: IMMERSION CLEANER AND COLD PARTS CLEANER

SYNONYMS: None.

PRODUCT CODE: 50, 699, 6861, 9699

PRODUCT USE: For cleaning carburetors and metal parts.
If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

This number is for emergency use only. If you desire non-emergency product information, please call a phone number listed below.

**24-HOUR EMERGENCY PHONE NUMBER
MEDICAL AND TRANSPORTATION (SPILL):**

1-800-468-1760

SUPPLIER: Safety-Kleen Systems, Inc.
5400 Legacy Drive
Cluster II, Building 3
Plano, Texas 75024
USA
1-800-669-5740
www.Safety-Kleen.com

TECHNICAL INFORMATION: 1-800-669-5740 Press 1 then 1, then Extension 7500

MSDS FORM NUMBER: 82411

ISSUE: October 13, 2009

ORIGINAL ISSUE: December 1, 1989

SUPERSEDES: November 26, 2007

PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

IMMERSION CLEANER AND COLD PARTS CLEANER
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Clear, brown liquid

WARNING!

PHYSICAL HAZARDS

Combustible liquid and vapor.

HEALTH HAZARDS

May be harmful if inhaled.

May burn eyes.

May burn skin.

May be harmful if absorbed through skin.

Harmful or fatal if swallowed.

May irritate the respiratory tract (nose, throat, and lungs).

Contains material which may cause cancer.

Contains material which may cause central nervous system, eye, and skin damage.

ENVIRONMENTAL HAZARDS

Based upon components, product may be toxic to fish.

OSHA Regulated Chemicals

Naphthalene (91-20-3)

Present (Select Carcinogen)

IMMERSION CLEANER AND COLD PARTS CLEANER

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

POTENTIAL HEALTH EFFECTS

INHALATION (BREATHING): High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

EYES: This product is severely irritating to the eyes and may cause eye burns.

SKIN: May cause irritation, swelling, blistering, and/or burns. Dipropylene glycol monomethyl ether and naphthalene may be absorbed through the skin and cause harm as noted under **INHALATION (BREATHING)**.

INGESTION (SWALLOWING): This product may be harmful or fatal if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under **INHALATION (BREATHING)**, and/or heart injury. Monoethanolamine may burn mouth, throat, esophagus, and stomach. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing liver, kidney, respiratory tract (nose, throat, and lungs), central nervous system, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC: Prolonged or repeated inhalation of monoethanolamine may cause inflammation and sores in the mouth; and bronchial and/or gastrointestinal disturbances. Prolonged or repeated inhalation of naphthalene may cause cataracts and/or corneal inflammation and sores. Prolonged or repeated exposure may have reproductive toxicity, teratogenic, or mutagenic effects. Prolonged or repeated inhalation may cause toxic effects as noted under **INHALATION (BREATHING)**. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis); and/or burns. Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis); and/or burns. Prolonged or repeated exposure may cause central nervous system, liver, kidney, lung, blood cell, eye, and skin damage.

CANCER INFORMATION: This product contains naphthalene which can cause cancer. Risk of cancer depends on duration and level of exposure. For more information, see **SECTION 11: CARCINOGENICITY**.

Also see **SECTION 15: CALIFORNIA**.

IMMERSION CLEANER AND COLD PARTS CLEANER

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

POTENTIAL ENVIRONMENTAL EFFECTS

Based upon components, product may be toxic to fish. See SECTION 12: ECOLOGICAL INFORMATION.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component	Synonyms	Percent
64742-94-5	Solvent naphtha (petroleum), heavy arom.	Aromatic 150	30-60
872-50-4	1-Methyl-2-pyrrolidone	N-methyl-1-pyrrolidone	10-30
34590-94-8	Dipropylene glycol monomethyl ether	Propanol, 1(or2)-(2-methoxymethylethoxy)	7-13
112-80-1	Oleic acid	9-Octadecenoic acid	5-10
141-43-5	Ethanolamine	2-Amino-ethanol	3-7
91-20-3	Naphthalene	Naphthalin	3-6

SECTION 4: FIRST AID MEASURES

INHALATION (BREATHING): Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

EYES: If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get immediate medical attention.

SKIN: For skin contact, wash immediately with soap and water. Immediately remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Call a physician immediately.

INGESTION (SWALLOWING): Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIANS: Treat symptomatically and supportively. Increased sensitivity of the heart to Adrenaline (epinephrine) may be caused by overexposure to product. Administration of gastric lavage, if warranted, should be performed by qualified medical personnel. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

IMMERSION CLEANER AND COLD PARTS CLEANER
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 5: FIRE FIGHTING MEASURES

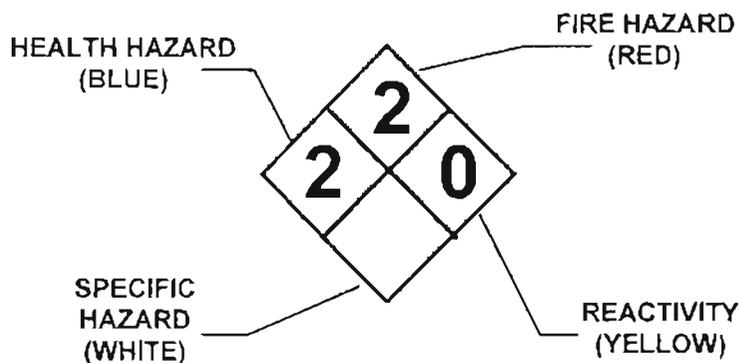
HAZARDOUS COMBUSTION PRODUCTS: Decomposition and combustion materials may be toxic. Burning may produce nitrogen oxides, acid halides, carbon monoxide and unidentified organic compounds.

CONDITIONS OF FLAMMABILITY: Heat, sparks, or flame.

PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

EXTINGUISHING MEDIA: Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.

NFPA 704 HAZARD IDENTIFICATION: This information is intended solely for the use by individuals trained in this system.



FIRE FIGHTING INSTRUCTIONS: Keep storage containers cool with water spray.

FIRE AND EXPLOSION HAZARDS: Vapor explosion hazard indoors, outdoors, or in sewers. Vapor may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire hazard. Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact. Product may be sensitive to static discharge, which could result in fire or explosion.

IMMERSION CLEANER AND COLD PARTS CLEANER
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

There may be specific regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **SECTION 15: REGULATORY INFORMATION**.

SECTION 7: HANDLING AND STORAGE

HANDLING: Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke when using this product.

SHIPPING AND STORING: Keep container tightly closed when not in use and during transport. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

IMMERSION CLEANER AND COLD PARTS CLEANER
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Component Exposure Limits

Dipropylene glycol monomethyl ether (34590-94-8)

ACGIH: 100 ppm TWA
150 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 100 ppm TWA; 600 mg/m³ TWA
150 ppm STEL; 900 mg/m³ STEL
Prevent or reduce skin absorption

NIOSH: 100 ppm TWA; 600 mg/m³ TWA
150 ppm STEL; 900 mg/m³ STEL
Potential for dermal absorption

Oleic acid (112-80-1)

OSHA: 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction) (related to Vegetable oil mist)

NIOSH: 10 mg/m³ TWA (total mist); 5 mg/m³ TWA (respirable mist) (related to Vegetable oil)

Ethanolamine (141-43-5)

ACGIH: 3 ppm TWA
6 ppm STEL

OSHA: 3 ppm TWA; 8 mg/m³ TWA
6 ppm STEL; 15 mg/m³ STEL

NIOSH: 3 ppm TWA; 8 mg/m³ TWA
6 ppm STEL; 15 mg/m³ STEL

Naphthalene (91-20-3)

ACGIH: 10 ppm TWA
15 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 10 ppm TWA; 50 mg/m³ TWA
15 ppm STEL; 75 mg/m³ STEL

NIOSH: 10 ppm TWA; 50 mg/m³ TWA
15 ppm STEL; 75 mg/m³ STEL

ENGINEERING CONTROLS: Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.

IMMERSION CLEANER AND COLD PARTS CLEANER

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use NIOSH-certified, full-faced, air-purifying respiratory protective equipment with organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

EYE PROTECTION: Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

SKIN PROTECTION: Where skin contact is likely, chemical impervious protective gloves; use of natural rubber (latex) or equivalent gloves is not recommended.

To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

PERSONAL HYGIENE: Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard leather articles, such as shoes, saturated with this product.

OTHER PROTECTIVE EQUIPMENT: Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, APPEARANCE, AND ODOR: Clear, brown liquid

ODOR THRESHOLD: Not available.

MOLECULAR WEIGHT: Not available.

SPECIFIC GRAVITY: 0.95 (water = 1)

DENSITY: 7.9 LB/US gal (950 g/l)

VAPOR DENSITY: 4.4 (air = 1)

VAPOR PRESSURE: <0.4 mmHg at 68°F (20°C)

IMMERSION CLEANER AND COLD PARTS CLEANER
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

BOILING POINT: 340°F (171°C) (initial)

FREEZING/MELTING POINT: < 10°F (-12°C)

pH: 11

EVAPORATION RATE: 1 (butyl acetate = 1)

SOLUBILITY IN WATER: Complete.

FLASH POINT: >140°F (60°C) Tag Closed Cup

FLAMMABLE LIMITS IN AIR: **LOWER:** 0.8 VOL% (approximately)
UPPER: 7 VOL% (approximately)

AUTOIGNITION TEMPERATURE: 829°F (443°C) (approximately)

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures.

CONDITIONS TO AVOID: Avoid heat, sparks, or flame and contact with incompatible materials.

INCOMPATIBILITY: Avoid acids, alkalies, oxidizing agents, reactive halogens, or reactive metals. Oleic acid can react with perchlorates or perchloric acid to form explosive products.

REACTIVITY: Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal temperatures and pressures. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.**

IMMERSION CLEANER AND COLD PARTS CLEANER
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY DATA:

Component Analysis - LD50/LC50

Solvent naphtha (petroleum), heavy arom. (64742-94-5)

Inhalation LC50 Rat: 590 mg/m³/4H

Oral LD50 Rat: 7050 mg/kg

Dermal LD50 Rabbit: 2 mL/kg

1-Methyl-2-pyrrolidone (872-50-4)

Inhalation LC50 Rat: 3.1 mg/L/4H

Oral LD50 Rat: 3598 mg/kg

Dermal LD50 Rat: 2500 mg/kg

Dermal LD50 Rabbit: 2000 mg/kg

Dipropylene glycol monomethyl ether (34590-94-8)

Oral LD50 Rat: 5230 mg/kg

Dermal LD50 Rabbit: 9500 mg/kg

Oleic acid (112-80-1)

Oral LD50 Rat: 25 g/kg

Ethanolamine (141-43-5)

Oral LD50 Rat: 1720 mg/kg

Dermal LD50 Rabbit: 1 mL/kg

Dermal LD50 Rabbit: 1025 mg/kg

Naphthalene (91-20-3)

Inhalation LC50 Rat: >340 mg/m³/1H

Oral LD50 Rat: 490 mg/kg

Dermal LD50 Rat: >2500 mg/kg

Dermal LD50 Rabbit: >20 g/kg

ACUTE EFFECTS:

May cause severe irritation or burns to the eyes and skin. Components may be absorbed through the skin in harmful amounts. Monoethanolamine may burn mouth, throat, esophagus, and stomach. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects.

IMMERSION CLEANER AND COLD PARTS CLEANER
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REPEATED DOSE EFFECTS: Monoethanolamine has demonstrated human effects of mutagenicity. Naphthalene has demonstrated animal effects of mutagenicity. N-Methyl-2-pyrrolidinone and oleic acid have demonstrated experimental effects of mutagenicity. Based on best current information, the other components listed in **SECTION 2** are not mutagens.

Monoethanolamine and naphthalene have demonstrated animal effects of teratogenicity. Based on best current information, the other components listed in **SECTION 2** are not teratogens.

Monoethanolamine and N-Methyl-2-pyrrolidinone have demonstrated experimental effects of reproductive toxicity. Based on best current information, the other components listed in **SECTION 2** are not reproductive toxicants. Also see **SECTION 15: CALIFORNIA**.

Based on best current information, there are no known toxicologically synergistic products associated with this product.

CARCINOGENICITY: Naphthalene is categorized by IARC as possibly carcinogenic to humans (Group 2B).

Based on best current information for the other components listed in **SECTION 2**, there is no known carcinogenicity as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

Also see **SECTION 3: CANCER INFORMATION** and **SECTION 15: CALIFORNIA**.

TARGET ORGAN EFFECTS: Prolonged or repeated inhalation of monoethanolamine may cause inflammation and sores in the mouth; and bronchial and/or gastrointestinal disturbances. Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis); and/or burns. Prolonged or repeated exposure may cause central nervous system, liver, kidney, lung, blood cell, eye, and skin damage.

IMMERSION CLEANER AND COLD PARTS CLEANER
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Based upon components, this product may be toxic to aquatic life.
Component Analysis - Ecotoxicity - Aquatic Toxicity

Solvent naphtha (petroleum), heavy arom. (64742-94-5)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	19 mg/L	static
96 Hr LC50 Oncorhynchus mykiss	2.34 mg/L	
96 Hr LC50 Lepomis macrochirus	1740 mg/L	static
72 Hr EC50 Skeletonema costatum	2.5 mg/L	

1-Methyl-2-pyrrolidone (872-50-4)

Test & Species		Conditions
96 Hr LC50 Lepomis macrochirus	832 mg/L	static
96 Hr LC50 Leuciscus idus	4000 mg/L	static
96 Hr LC50 Pimephales promelas	1072 mg/L	static
96 Hr LC50 Poecilia reticulata	1400 mg/L	static
72 Hr EC50 Scenedesmus subspicatus	>500 mg/L	

Dipropylene glycol monomethyl ether (34590-94-8)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	>10000 mg/L	static

Oleic acid (112-80-1)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	205 mg/L	static

Ethanolamine (141-43-5)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	227 mg/L	flow-through
96 Hr LC50 Brachydanio rerio	3684 mg/L	static
96 Hr LC50 Lepomis macrochirus	329.16 mg/L	static
96 Hr LC50 Oncorhynchus mykiss	150 mg/L	static
72 Hr EC50 Scenedesmus subspicatus	15 mg/L	

Naphthalene (91-20-3)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	6.14 mg/L	flow-through
96 Hr LC50 Oncorhynchus mykiss	1.60 mg/L	juvenile
96 Hr LC50 Pimephales promelas	6.08 mg/L	flow-through
96 Hr LC50 Pimephales promelas	1.99 mg/L	static
96 Hr EC50 Skeletonema costatum	0.4 mg/L	

IMMERSION CLEANER AND COLD PARTS CLEANER
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PERSISTENCE/DEGRADABILITY: No information available for the product.

BIOACCUMULATION/ACCUMULATION: No information available for the product.

MOBILITY IN ENVIRONMENTAL MEDIA: No information available for the product.

OTHER ADVERSE EFFECTS: Based upon components, product may be toxic to fish. See **SECTION 12: ECOLOGICAL INFORMATION.**

OCTANOL/WATER PARTITION COEFFICIENT: Not available.

VOLATILE ORGANIC COMPOUNDS: 100 WT%; 7.9 LB/US gal; 950 g/l
As per 40 CFR Part 51.100(s)
VOC VP <0.4 mmHg @ 20°C
Contains Photochemically Reactive Solvent (>60% by volume)

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

USEPA WASTE CODE(S): This product, if discarded, is not expected to be a characteristic or listed hazardous waste. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product.

SECTION 14: TRANSPORT INFORMATION

DOT: Shipping Name: Compounds, cleaning liquid (Ethanolamine)
UN/NA #: NA1760 Hazard Class: 8 Packing Group: III
Required Label(s): CORROSIVE

TDG: Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(monoethanolamine)
UN/NA #: UN3267 Hazard Class: 8 Packing Group: III
Required Label(s): CORROSIVE

EMERGENCY RESPONSE GUIDE NUMBER: 153
Reference *North American Emergency Response Guidebook*

IMMERSION CLEANER AND COLD PARTS CLEANER
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

OSHA OSHA Regulated Chemicals
Naphthalene (91-20-3)
Select Carcinogen

SARA SECTIONS 302 AND 304: Based on the ingredient(s) listed in **SECTION 2**, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA SECTIONS 311 AND 312: This product poses the following health hazard(s) as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):
Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
Fire Hazard

SARA SECTION 313: The following components are subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Component	CAS
1-Methyl-2-pyrrolidone	872-50-4
Naphthalene	91-20-3

CERCLA: Based on the ingredient(s) listed in **SECTION 2**, this product contains the following "hazardous substance(s)" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

Component	CAS	RQ
Naphthalene	91-20-3	100 LBS (45.4 kg)

TSCA: All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

IMMERSION CLEANER AND COLD PARTS CLEANER
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CALIFORNIA: This product contains naphthalene CAS 91-20-3. This product may contain detectable amounts of arsenic CAS 7440-38-2, benzene CAS 71-43-2, cadmium CAS 7440-43-9, chromium CAS 7440-47-3, lead CAS 7439-92-1, methylene chloride CAS 75-09-2, perchloroethylene CAS 127-18-4, trichloroethylene CAS 79-01-6, dichlorobenzene, para- CAS 106-46-7, and beryllium CAS 7440-41-7. **WARNING:** These chemicals are known to the State of California to cause cancer.

This product contains N-Methyl-2-pyrrolidone CAS 872-50-4. This product may contain detectable amounts of arsenic CAS 7440-38-2, benzene CAS 71-43-2, cadmium CAS 7440-43-9, mercury CAS 7439-97-6, lead CAS 7439-92-1, and toluene CAS 108-88-3. **WARNING:** These chemicals are known to the State of California to cause birth defects or other reproductive harm.

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

SECTION 16. OTHER INFORMATION

REVISION INFORMATION: Section 12, VOCs.

LABEL/OTHER INFORMATION: Container: SK81336.

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.

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ARMAKLEEN™ MPC Concentrate



MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ARMAKLEEN MPC Concentrate

SYNONYM(S): Not available.

PRODUCT PART NUMBERS: 6317, 6344

PRODUCT USE: Aqueous, alkaline, concentrated cleaner that is to be diluted with water for the removal of grease, oil, dirt, dust, grime, and other soils from a variety of metal and non-metal surfaces. If this material is used in combination with other products, refer to the Material Safety Data Sheets for those products.

**24-HOUR EMERGENCY PHONE NUMBERS
MEDICAL AND TRANSPORTATION (SPILL):**

These numbers are for emergency use only. If you desire non-emergency product information, please call a phone number listed below.

1-800-468-1760

MANUFACTURER:
The ArmaKleen Company
469 North Harrison Street
Princeton, NJ 08543
USA
(609) 683-5900

SUPPLIER:
Safety-Kleen Systems, Inc.
5400 Legacy Drive, Cluster II, Building 3
Plano, TX 75024
USA
(800) 669-5740

TECHNICAL INFORMATION: 1-800-332-5424

SAFETY-KLEEN MSDS FORM NUMBER: 82782
THE ARMAKLEEN COMPANY MSDS NUMBER: 802

ISSUE: February 22, 2008

ORIGINAL ISSUE: July 9, 1999

SUPERSEDES: January 31, 2006

PREPARED BY: ArmaKleen MSDS Coordinator

APPROVED BY: The ArmaKleen Company

ARMAKLEEN MPC Concentrate
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

WT%	NAME	SYNONYM	CAS NO.	OSHA PEL		ACGIH TLV®		LD ^a	LC ^b
				TWA	STEL	TWA	STEL		
5 to 10	Sodium Carbonate	Soda Ash	497-19-8	N. Av.	N. Av.	10mg/m ^{3,c}	N. Av.	>3000	N. Av.
5 to 10	Alcohols C9-C11, ethoxylated	Linear, primary alcohol ethoxylate	68439-46-3	N. Av.	N. Av.	N. Av.	N. Av.	>2700	N. Av.
1 to 5	Fatty acids, C9-13-neo	C9-C13-Neoacids	68938-07-8	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
1 to 5	Neo-decanoic Acid	2,2,3,5 tetramethyl hexanoic acid	26896-20-8	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
1 to 5	Silicic acid, sodium salt	Sodium silicate	1344-09-8	N. Av.	N. Av.	5mg/m ^{3,d}	N. Av.	N. Av.	N. Av.
1 to 5	Sodium hydroxide	Caustic soda	1310-73-2	2 mg/m ³	N. Av.	2mg/m ³ (ceiling)	N. Av.	N. Av.	N. Av.
1 to 5	Alcohols, C11, ethoxylated	Linear, primary alcohol ethoxylate	34398-01-1	N. Av.	N. Av.	N. Av.	N. Av.	>700	N. Av.
1 to 5	Lauramine oxide	Lauryl dimethyl amine oxide	1643-20-5	N. Av.	N. Av.	N. Av.	N. Av.	>2700	N. Av.
1 to 5	N. Av.*	Alcohol alkoxyate	N. Av.*	N. Av.	N. Av.	N. Av.	N. Av.	>2000	N. Av.

N.Av. = Not Available

^aOral-Rat LD₅₀ (mg/kg)

^cParticulates not otherwise classified

*Supplier advises that this is a trade secret.
 New Jersey TSRN-489909-5125-PL

^bInhalation LC₅₀

^dmanufacturer recommended ceiling limit as respirable mist

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Liquid, clear, light amber color, mild detergent odor.

CAUTION!

HEALTH HAZARDS

May irritate the respiratory tract (nose, throat, and lungs), eyes, skin, and digestive tract.

POTENTIAL HEALTH EFFECTS

INHALATION High concentrations of vapor or mist may irritate the respiratory tract
(BREATHING): (nose, throat, and lungs).

EYES: May cause slight to moderate irritation

SKIN: May cause slight to moderate irritation. Not likely to be absorbed through the skin in harmful amounts

INGESTION

(SWALLOWING): May cause digestive tract irritation.

ARMAKLEEN MPC Concentrate
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC: Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

CANCER INFORMATION: No known carcinogenicity.

POTENTIAL ENVIRONMENTAL EFFECTS

Not available.

SECTION 4: FIRST AID MEASURES

INHALATION: (BREATHING) Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

EYES: If irritation or redness from exposure to vapor develops, move away from exposure into fresh air and flush with water for 5 minutes. Upon direct contact with liquid, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

SKIN: Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists.

INGESTION: (SWALLOWING) Do NOT induce vomiting. Immediately get medical attention. Call medical emergency telephone number (1-800-468-1760) for additional information. If conscious, give water to drink. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything to an unconscious person by mouth.

NOTE TO PHYSICIANS: Treat symptomatically and supportively. Ingesting large amounts may cause systemic alkalosis. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: greater than 212°F (100°C)

FLAMMABLE LIMITS IN AIR: Not applicable.

ARMAKKLEEN MPC Concentrate

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

AUTOIGNITION TEMPERATURE:

Not applicable.

HAZARDOUS COMBUSTION PRODUCTS:

Product itself does not burn, but may decompose upon heating to produce carbon monoxide, carbon dioxide, sulfur oxides, and nitrogen oxides.

CONDITIONS OF FLAMMABILITY:

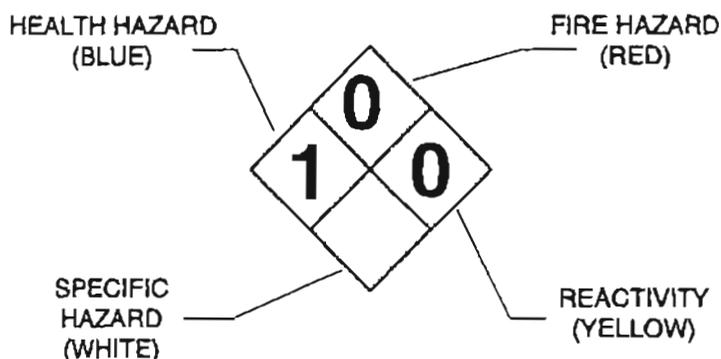
Product will not burn.

EXTINGUISHING MEDIA:

Not applicable.

NFPA 704 HAZARD IDENTIFICATION:

This information is intended solely for the use by individuals trained in this system.



FIRE FIGHTING INSTRUCTIONS:

Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

FIRE AND EXPLOSION HAZARDS:

Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Not sensitive to mechanical impact or static discharge.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spilled product is slippery. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain away from surface waters and sewers. Contain spill as a liquid for possible recovery or sorb with compatible sorbent material and shovel with a clean tool into a sealable container for disposal.

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Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

There may be additional regulatory reporting requirements associated with spills, leaks, or releases of this product.

SECTION 7: HANDLING AND STORAGE

HANDLING: Use clean tools. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes.

SHIPPING AND STORING: Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Empty product containers may retain product residue and can be dangerous.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use NIOSH-certified, combination N-, P-, or R- series particulate filter respiratory protective equipment when concentration of vapor or mist exceeds applicable exposure limits. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

EYE PROTECTION: Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

SKIN PROTECTION: Where skin contact is likely, wear nitrile, neoprene, or equivalent protective gloves; use of polyvinyl alcohol (PVA), natural rubber, or equivalent gloves is not recommended.

To avoid skin contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

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PERSONAL HYGIENE: Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with the product.

OTHER PROTECTIVE EQUIPMENT: Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, APPEARANCE, AND ODOR: Liquid, clear, light amber color, mild detergent odor.

ODOR THRESHOLD: Not available.

MOLECULAR WEIGHT: Not applicable.

SPECIFIC GRAVITY: 1.05 (water = 1)

DENSITY: 8.8 LB/US gal (1050 g/L)
VAPOR DENSITY: less than 1 (air = 1)

VAPOR PRESSURE: 17.5 mm Hg at 68°F (20°C)

BOILING POINT: 212°F (100°C)

FREEZING/MELTING POINT: 32°F (0°C)

pH: 11.8

EVAPORATION RATE: Less than 1 (butyl acetate = 1)

SOLUBILITY IN WATER: Complete.

FLASH POINT: greater than 212°F (100°C)

FLAMMABLE LIMITS IN AIR: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

SECTION 10: STABILITY AND REACTIVITY

- STABILITY:** Stable under normal temperatures and pressures.
- INCOMPATIBILITY:** Avoid acids, oxidizing agents, or reducing agents.
- REACTIVITY:** Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.
- HAZARDOUS DECOMPOSITION PRODUCTS:** None under normal temperatures and pressures.

SECTION 11: TOXICOLOGICAL INFORMATION

- SENSITIZATION:** Based on best current information, there is no known human sensitization associated with this product.
- MUTAGENICITY:** Based on best current information, there is no known mutagenicity associated with this product.
- CARCINOGENICITY:** Based on best current information, there is no known carcinogenicity as regulated by OSHA; as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.
- REPRODUCTIVE TOXICITY:** Based on best current information, there is no known reproductive toxicity associated with this product.
- TERATOGENICITY:** Based on best current information, there is no known teratogenicity associated with this product.
- TOXICOLOGICALLY SYNERGISTIC PRODUCT(S):** Based on best current information, there are no known toxicologically synergistic products associated with this product.

ARMAKKLEEN MPC Concentrate
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No data available.

OCTANOL/WATER

PARTITION COEFFICIENT: Not available.

VOLATILE ORGANIC COMPOUNDS: Contains 0.0g/L VOC (as soaps and detergents) as per EPA Method 24.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding recycling or proper disposal.

USEPA WASTE CODE(S): This product, if discarded, is not expected to be a characteristic or listed hazardous waste. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated.

TDG: Not regulated.

EMERGENCY RESPONSE Not applicable.

GUIDE NUMBER: Reference *North American Emergency Response Guidebook*

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

SARA SECTIONS 302 AND 304: This product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA SECTIONS 311 AND 312: This product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate (Acute) Health Hazard

ARMAKLEEN MPC Concentrate

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SARA SECTION 313: This product does not contain toxic chemicals subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CERCLA: This product contains the following "hazardous substance" listed under the Comprehensive Environmental Response, compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantity (RQ):

Material	CAS	RQ
Sodium hydroxide	1310-73-2	1000 LB (454 kg)

TSCA: All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or exempted from the requirement to be listed on, the TSCA Inventory.

CALIFORNIA: This product does not contain detectable amounts of any chemical known to the State of California to cause cancer.

This product does not contain detectable amounts of any chemical known to the State of California to cause birth defects or other reproductive harm.

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS: D2B

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

All the components of this product are listed on, or are automatically included as "substances occurring in nature" on, or are exempted from the requirement to be listed on, the Canadian Domestic Substances List (DSL).

ARMAKLEEN MPC Concentrate
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 16: OTHER INFORMATION

REVISION INFORMATION: Product Name.

LABEL/OTHER INFORMATION: Not available.

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, The ArmaKleen Company assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product as supplied to the user.



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**ARMAKLEEN™ Combo Cleaner
Cleaning Solution**



MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ARMAKLEEN Combo Cleaner Cleaning Solution

SYNONYM(S): Not available.

**PRODUCT PART
NUMBERS:** Not Available.

PRODUCT USE: Aqueous alkaline cleaning solution for the removal of grease, oil, dirt, dust, grime, and other soils from a variety of metal and non-metal surfaces. If this product is used in combination with other products, refer to the Material Safety Data Sheets for those products.

24-HOUR EMERGENCY PHONE NUMBERS

These numbers are for emergency use only. If you desire non-emergency product information, please call a phone number listed below.

MEDICAL:

1-800-468-1760

TRANSPORTATION (SPILL):

MANUFACTURER:
The ArmaKleen Company
469 North Harrison Street
Princeton, NJ 08543
USA
(609) 683-5900

SUPPLIER:
Safety-Kleen Systems, Inc.
5360 Legacy Drive, Building 2, Suite 100
Plano, TX 75024
USA
(800) 669-5740

TECHNICAL INFORMATION: 1-800-332-5424

SAFETY-KLEEN MSDS FORM NUMBER: 820021
THE ARMAKLEEN COMPANY MSDS NUMBER: 825

ISSUE: March 9, 2009

ORIGINAL ISSUE: July 9, 2007

SUPERSEDES: February 22, 2008

PREPARED BY: ArmaKleen MSDS Coordinator

**APPROVED BY: The ArmaKleen
Company**

ARMAKLEEN Combo Cleaner Cleaning Solution
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

WT%	NAME	SYNONYM	CAS NO.	OSHA PEL		ACGIH TLV®		Ld ^a	LC ^b
				TWA	STEL	TWA	STEL		
0.5 to 1.5	Sodium Carbonate	Soda Ash	497-19-8	N. Av.	N. Av.	10mg/m ^{3,c}	N. Av.	>3000	N. Av.
0.1 to 1.0	Sodium Silicate	Sodium Silicate	1344-09-8	5mg/m ³	N. Av.	5mg/m ³ (ceiling)	N. Av.	N. Av.	N. Av.

N.Av. = Not Available
^aOral-Rat LD₅₀ (mg/kg) ^bInhalation ^cParticulates not otherwise classified (PNOC)
 LC₅₀

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Liquid, clear, light amber color, mild detergent odor.

CAUTION!

HEALTH HAZARDS

May irritate the respiratory tract (nose, throat, and lungs), eyes, skin, and digestive tract.

POTENTIAL HEALTH EFFECTS

INHALATION (BREATHING): High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs).

EYES: May cause slight to moderate irritation

SKIN: May cause slight to moderate irritation. Not likely to be absorbed through the skin in harmful amounts

INGESTION

(SWALLOWING): May cause digestive tract irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC: Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

CANCER INFORMATION: No known carcinogenicity.

ARMAKLEEN Combo Cleaner Cleaning Solution
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

POTENTIAL ENVIRONMENTAL EFFECTS

Not available.

SECTION 4: FIRST AID MEASURES

**INHALATION:
(BREATHING)** Remove to fresh air. Get medical attention if breathing difficulty persists. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Oxygen and artificial respiration should only be administered by qualified personnel.

EYES: If irritation or redness from exposure to vapor develops, move away from exposure into fresh air and flush eyes with water for 5 minutes. Upon contact with liquid, immediately flush eyes with plenty of water for 15 minutes while holding eyelids apart. Get medical attention if irritation develops or persists.

SKIN: Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists.

**INGESTION:
(SWALLOWING)** Do NOT induce vomiting. Immediately get medical attention. Call medical emergency telephone number (1-800-468-1760) for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything to an unconscious person by mouth.

**NOTE TO
PHYSICIANS:** Treat symptomatically and supportively. Ingesting large amounts may cause systemic alkalosis. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: greater than 212°F (100°C)

FLAMMABLE LIMITS IN AIR: Not applicable.

**AUTOIGNITION
TEMPERATURE:** Not applicable.

**HAZARDOUS COMBUSTION
PRODUCTS:** Product itself does not burn, but may decompose upon heating to produce carbon monoxide, carbon dioxide, sulfur oxides, and nitrogen oxides.

**CONDITIONS OF
FLAMMABILITY:** Product will not burn.

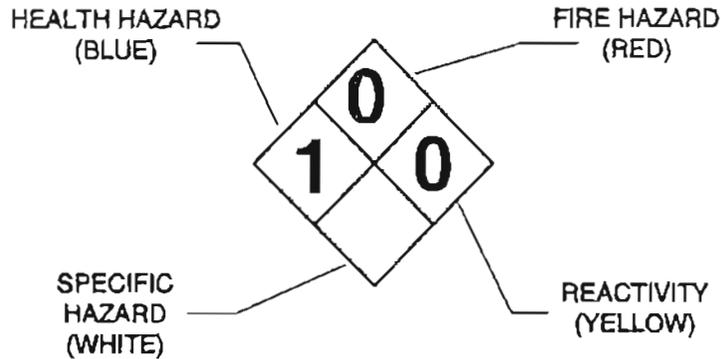
EXTINGUISHING MEDIA: Not applicable.

ARMAKLEEN Combo Cleaner Cleaning Solution

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

NFPA 704 HAZARD IDENTIFICATION:

This information is intended solely for the use by individuals trained in this system.



FIRE FIGHTING INSTRUCTIONS:

Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

FIRE AND EXPLOSION HAZARDS:

Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Not sensitive to mechanical impact or static discharge.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spilled product is slippery. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain away from surface waters and sewers. Contain spill as a liquid for possible recovery or sorb with compatible sorbent material and shovel with a clean tool into a sealable container for disposal.

Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

There may be additional regulatory reporting requirements associated with spills, leaks, or releases of this product.

ARMAKLEEN Combo Cleaner Cleaning Solution
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 7: HANDLING AND STORAGE

HANDLING: Use clean tools. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes.

SHIPPING AND STORING: Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Empty product containers may retain product residue and can be dangerous.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use NIOSH-certified, combination N-, P-, or R- series particulate filter respiratory protective equipment when concentration of vapor or mist exceeds applicable exposure limits. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

EYE PROTECTION: Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

SKIN PROTECTION: Where skin contact is likely, wear nitrile, neoprene, or equivalent protective gloves; use of polyvinyl alcohol (PVA), natural rubber, or equivalent gloves is not recommended.

To avoid skin contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

PERSONAL HYGIENE: Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with the product.

OTHER PROTECTIVE EQUIPMENT: Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

ARMAKLEEN Combo Cleaner Cleaning Solution
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, APPEARANCE, AND ODOR:	Liquid, clear, light amber color, mild detergent odor.
ODOR THRESHOLD:	Not available.
MOLECULAR WEIGHT:	Not applicable.
SPECIFIC GRAVITY:	1 (water = 1)
DENSITY:	8.3 LB/US gal (1000 g/L)
VAPOR DENSITY:	less than 1 (air = 1)
VAPOR PRESSURE:	17.5 mm Hg at 68°F (20°C)
BOILING POINT:	212°F (100°C)
FREEZING/MELTING POINT:	32°F (0°C) (approximately)
pH:	11.6
EVAPORATION RATE:	Less than 1 (butyl acetate = 1)
SOLUBILITY IN WATER:	Complete.
FLASH POINT:	greater than 212°F (100°C)
FLAMMABLE LIMITS IN AIR:	Not applicable.
AUTOIGNITION TEMPERATURE:	Not applicable.

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable under normal temperatures and pressures.
INCOMPATIBILITY:	Avoid acids, oxidizing agents, or reducing agents.
REACTIVITY:	Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.
HAZARDOUS DECOMPOSITION PRODUCTS:	None under normal temperatures and pressures. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

ARMAKLEEN Combo Cleaner Cleaning Solution
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 11: TOXICOLOGICAL INFORMATION

- SENSITIZATION:** Based on best current information, there is no known human sensitization associated with this product.
- MUTAGENICITY:** Based on best current information, there is no known mutagenicity associated with this product.
- CARCINOGENICITY:** Based on best current information, there is no known carcinogenicity as regulated by OSHA; as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.
- REPRODUCTIVE TOXICITY:** Based on best current information, there is no known reproductive toxicity associated with this product.
- TERATOGENICITY:** Based on best current information, there is no known teratogenicity associated with this product.
- TOXICOLOGICALLY SYNERGISTIC PRODUCT(S):** Based on best current information, there are no known toxicologically synergistic products associated with this product.

SECTION 12: ECOLOGICAL INFORMATION

- ECOTOXICITY:** No data available.
- OCTANOL/WATER PARTITION COEFFICIENT:** Not available.
- VOLATILE ORGANIC COMPOUNDS:** 1.48%; 0.13 LB/US gal as per 40 CFR 51.100(s) Method 24
Product Vapor Pressure @20°C = approx 17.5 mmHg
Does not contain photochemically reactive solvents.

SECTION 13: DISPOSAL CONSIDERATIONS

- DISPOSAL:** Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding recycling or proper disposal.

ARMAKLEEN Combo Cleaner Cleaning Solution
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

USEPA WASTE CODE(S): This product, if discarded, is not expected to be a characteristic or listed hazardous waste. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated.

TDG: Not regulated.

EMERGENCY RESPONSE GUIDE NUMBER: Not applicable.
Reference *North American Emergency Response Guidebook*

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

SARA SECTIONS 302 AND 304: This product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA SECTIONS 311 AND 312: This product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate (Acute) Health Hazard

SARA SECTION 313: This product does not contain toxic chemicals subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CERCLA: Based on the ingredients listed in **SECTION 2**, this product contains the following "hazardous substances" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantity (RQ):

None.

ARMAKLEEN Combo Cleaner Cleaning Solution
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

TSCA: All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or exempted from the requirement to be listed on, the TSCA Inventory.

CALIFORNIA: This product does not contain detectable amounts of any chemical known to the State of California to cause cancer.

This product does not contain detectable amounts of any chemical known to the State of California to cause birth defects or other reproductive harm.

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS: D2B

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

All the components of this product are listed on, or are automatically included as "substances occurring in nature" on, or are exempted from the requirement to be listed on, the Canadian Domestic Substances List (DSL).

SECTION 16: OTHER INFORMATION

REVISION INFORMATION: Update to formulation.

LABEL/OTHER INFORMATION: Not available.

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, The ArmaKleen Company assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product as supplied to the user.

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SAFETY-KLEEN HEAVY DUTY LACQUER THINNER 6782
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SAFETY-KLEEN HEAVY DUTY LACQUER THINNER 6782

SYNONYMS: None.

PRODUCT CODE: 5820, 5825, 6782

PRODUCT USE: Paint gun cleaner.
If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

This number is for emergency use only. If you desire non-emergency product information, please call a phone number listed below.

**24-HOUR EMERGENCY PHONE NUMBER
MEDICAL AND TRANSPORTATION (SPILL):**

1-800-468-1760

SUPPLIER: Safety-Kleen Systems, Inc.
5360 Legacy Drive
Building 2, Suite 100
Plano, Texas 75024
USA
1-800-669-5740
www.Safety-Kleen.com

TECHNICAL INFORMATION: 1-800-669-5740 Press 1 then 1, then Extension 7500

MSDS FORM NUMBER: 82343

ISSUE: April 13, 2010

ORIGINAL ISSUE: July 20, 1989

SUPERSEDES: July 15, 2009

PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

SAFETY-KLEEN HEAVY DUTY LACQUER THINNER 6782
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Liquid, clear and colorless, solvent odor

DANGER!

PHYSICAL HAZARDS

Extremely flammable liquid and vapor.
Vapor may cause flash fire.

HEALTH HAZARDS

May be harmful or fatal if swallowed.
May be harmful if inhaled.
May be harmful if absorbed through the skin.
May irritate the respiratory tract (nose, throat, and lungs) and skin.
May cause blindness if swallowed.
May be severely irritating to the eyes.
Contains material which may cause central nervous system and eye damage.
Suspect cancer hazard. Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure.

ENVIRONMENTAL HAZARDS

Toxic to fish/plants.

OSHA Regulated Chemicals

Ethyl benzene (100-41-4)

Select Carcinogen

Methylene chloride (75-09-2)

12.5 ppm Action Level; 25 ppm TWA; 125 ppm STEL (15 min. Cancer, cardiac effects, central nervous system effects, liver effects, and skin and eye irritation - See 29 CFR 1910.1052)

Specifically Regulated Chemical

Select Carcinogen

Perchloroethylene (127-18-4)

Select Carcinogen

SAFETY-KLEEN HEAVY DUTY LACQUER THINNER 6782
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

POTENTIAL HEALTH EFFECTS

INHALATION (BREATHING): High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

EYES: May be severely irritating to the eyes. May cause tearing, redness, swelling, burns, and eye damage.

SKIN: May cause irritation. Toluene, n-butyl alcohol and methyl alcohol may be absorbed through the skin and cause harm as noted under **INHALATION (BREATHING)**.

INGESTION (SWALLOWING): May be harmful or fatal if swallowed. Ingestion of methanol may cause blindness. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under **INHALATION (BREATHING)**. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing respiratory tract (nose, throat, and lungs), cardiovascular, liver, kidney, central nervous system, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC: Prolonged or repeated inhalation may cause toxic effects as noted under **INHALATION (BREATHING)**. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis). Prolonged or repeated inhalation may cause brain, liver, kidney, heart, and central nervous system damage. Prolonged or repeated inhalation or ingestion exposure may have reproductive toxicity and/or teratogenicity effects. Prolonged or repeated exposure may have mutagenic effects.

CANCER INFORMATION: This product contains ethyl benzene, methylene chloride, and perchloroethylene which may cause cancer. Risk of cancer depends on duration and level of exposure. For more information, see **SECTION 11: CARCINOGENICITY**.

Also see **SECTION 15: CALIFORNIA**.

POTENTIAL ENVIRONMENTAL EFFECTS

Toxic to fish/plants. See **SECTION 12: ECOLOGICAL INFORMATION**.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component	Synonym	Percent
108-88-3	Toluene	Methyl Benzene	30-60
64741-89-5	C5 to C8 Aliphatic hydrocarbons	Low boiling hydrocarbons	0-60
8030-30-6	C9 to C13 Aliphatic hydrocarbons	Medium boiling hydrocarbon	0-60
108-10-1	Methyl isobutyl ketone	Hexone	0-60
110-43-0	Methyl n-amyl ketone	2-Heptanone	0-60
78-93-3	Methyl ethyl ketone	2-Butanone	0-60
107-87-9	Methyl propyl ketone	2-Pentanone	0-60
100-41-4	Ethyl benzene	Phenylethane	0-30
67-64-1	Acetone	Dimethyl ketone	0-20
763-69-9	Ethyl 3-ethoxypropanoate	Ethyl beta-ethoxy propionate	0-17
141-78-6	Ethyl acetate	Acetic acid	0-17
108-65-6	Propylene glycol monomethyl ether acetate	1-Methoxy-2propanol acetate	0-17
108-21-4	Isopropyl acetate	2-Acetoxypropane	0-17
123-86-4	n-Butyl acetate	N. Av.	0-17
110-19-0	Isobutyl acetate	2-Methylpropyl acetate	0-17
1330-20-7	Xylenes (o-, m-, p- isomers)	Dimethylbenzene	0-15
67-63-0	Isopropyl alcohol	Isopropanol	0-10
64-17-5	Ethyl alcohol	Ethanol	0-10
75-65-0	tert-Butyl alcohol	Trimethylmethanol	0-10
71-36-3	n-Butyl alcohol	1-Butanol	0-10
67-56-1	Methyl alcohol	Methanol	0-4
127-18-4	Perchloroethylene	Tetrachloroethylene	0-1
75-09-2	Methylene chloride	Dicloromethane	0-1
71-55-6	1,1,1-Trichloroethane	Methyl chloroform	0-1

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Butyl acetates.

SECTION 4: FIRST AID MEASURES

INHALATION (BREATHING): Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

EYES: If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Seek medical attention.

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INGESTION (SWALLOWING): Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIANS: Treat symptomatically and supportively. Increased sensitivity of the heart to Adrenaline (epinephrine) may be caused by overexposure to product. Administration of gastric lavage, if warranted, should be performed by qualified medical personnel. Treatment may vary with condition of victim and specifics of incident. Call 1-800-428-1760 for additional information.

SECTION 5: FIRE FIGHTING MEASURES

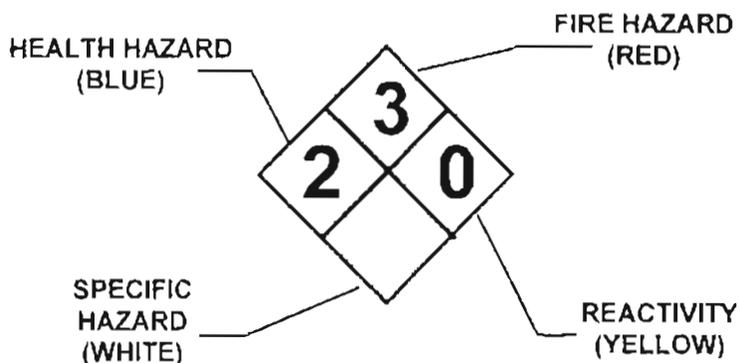
HAZARDOUS COMBUSTION PRODUCTS: Decomposition and combustion materials may be toxic. Burning may produce phosgene, chlorides, chloroacetylenes, formaldehyde, peracetic acid, carbon monoxide and unidentified organic compounds.

CONDITIONS OF FLAMMABILITY: Heat, sparks, or flame.

PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

EXTINGUISHING MEDIA: Carbon dioxide, alcohol-resistant foam, dry chemical, or water spray.

NFPA 704 HAZARD IDENTIFICATION: This information is intended solely for the use by individuals trained in this system.



FIRE FIGHTING INSTRUCTIONS:

Keep storage containers cool with water spray.

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**FIRE AND EXPLOSION
HAZARDS:**

Vapor explosion hazard indoors, outdoors, or in sewers. Vapors may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire or explosion hazard. Heated containers may rupture, explode, or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact. Product may be sensitive to static discharge, which could result in fire or explosion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **SECTION 15: REGULATORY INFORMATION**.

SECTION 7: HANDLING AND STORAGE

HANDLING: Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring large quantities of product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.

SHIPPING AND STORING: Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition; containers may explode and cause injury or death. Empty product containers may retain product residue and can be dangerous. See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Component Exposure Limits

Toluene (108-88-3)

ACGIH: 20 ppm TWA
Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA: 100 ppm TWA; 375 mg/m³ TWA
150 ppm STEL; 560 mg/m³ STEL
NIOSH: 100 ppm TWA; 375 mg/m³ TWA
150 ppm STEL; 560 mg/m³ STEL

Methyl isobutyl ketone (108-10-1)

ACGIH: 50 ppm TWA
75 ppm STEL
OSHA: 50 ppm TWA; 205 mg/m³ TWA
75 ppm STEL; 300 mg/m³ STEL
NIOSH: 50 ppm TWA; 205 mg/m³ TWA
75 ppm STEL; 300 mg/m³ STEL

Methyl propyl ketone (107-87-9)

ACGIH: 150 ppm STEL
OSHA: 200 ppm TWA; 700 mg/m³ TWA
250 ppm STEL; 875 mg/m³ STEL
NIOSH: 150 ppm TWA; 530 mg/m³ TWA

Methyl n-amyl ketone (110-43-0)

ACGIH: 50 ppm TWA
OSHA: 100 ppm TWA; 465 mg/m³ TWA
NIOSH: 100 ppm TWA; 465 mg/m³ TWA

Methyl ethyl ketone (78-93-3)

ACGIH: 200 ppm TWA
300 ppm STEL
OSHA: 200 ppm TWA; 590 mg/m³ TWA
300 ppm STEL; 885 mg/m³ STEL
NIOSH: 200 ppm TWA; 590 mg/m³ TWA
300 ppm STEL; 885 mg/m³ STEL

C9 to C13 Aliphatic hydrocarbons (8030-30-6)

OSHA: 100 ppm TWA; 400 mg/m³ TWA
NIOSH: 100 ppm TWA; 400 mg/m³ TWA

Ethyl benzene (100-41-4)

ACGIH: 100 ppm TWA
125 ppm STEL
OSHA: 100 ppm TWA; 435 mg/m³ TWA
125 ppm STEL; 545 mg/m³ STEL
NIOSH: 100 ppm TWA; 435 mg/m³ TWA
125 ppm STEL; 545 mg/m³ STEL

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Acetone (67-64-1)

ACGIH: 500 ppm TWA
750 ppm STEL
OSHA: 750 ppm TWA; 1800 mg/m³ TWA
1000 ppm STEL; 2400 mg/m³ STEL (The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors)
NIOSH: 250 ppm TWA; 590 mg/m³ TWA

Ethyl acetate (141-78-6)

ACGIH: 400 ppm TWA
OSHA: 400 ppm TWA; 1400 mg/m³ TWA
NIOSH: 400 ppm TWA; 1400 mg/m³ TWA

Isopropyl acetate (108-21-4)

ACGIH: 100 ppm TWA
200 ppm STEL
OSHA: 250 ppm TWA; 950 mg/m³ TWA
310 ppm STEL; 1185 mg/m³ STEL

Isobutyl acetate (110-19-0)

ACGIH: 150 ppm TWA
OSHA: 150 ppm TWA; 700 mg/m³ TWA
NIOSH: 150 ppm TWA; 700 mg/m³ TWA

n-Butyl acetate (123-86-4)

ACGIH: 150 ppm TWA
200 ppm STEL
OSHA: 150 ppm TWA; 710 mg/m³ TWA
200 ppm STEL; 950 mg/m³ STEL
NIOSH: 150 ppm TWA; 710 mg/m³ TWA
200 ppm STEL; 950 mg/m³ STEL

Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: 100 ppm TWA
150 ppm STEL
OSHA: 100 ppm TWA; 435 mg/m³ TWA
150 ppm STEL; 655 mg/m³ STEL

tert-Butyl alcohol (75-65-0)

ACGIH: 100 ppm TWA
OSHA: 100 ppm TWA; 300 mg/m³ TWA
150 ppm STEL; 450 mg/m³ STEL
NIOSH: 100 ppm TWA; 300 mg/m³ TWA
150 ppm STEL; 450 mg/m³ STEL

Isopropyl alcohol (67-63-0)

ACGIH: 200 ppm TWA
400 ppm STEL
OSHA: 400 ppm TWA; 980 mg/m³ TWA
500 ppm STEL; 1225 mg/m³ STEL
NIOSH: 400 ppm TWA; 980 mg/m³ TWA
500 ppm STEL; 1225 mg/m³ STEL

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Ethyl alcohol (64-17-5)

ACGIH: 1000 ppm TWA
OSHA: 1000 ppm TWA; 1900 mg/m³ TWA
NIOSH: 1000 ppm TWA; 1900 mg/m³ TWA

n-Butyl alcohol (71-36-3)

ACGIH: 20 ppm TWA
OSHA: 50 ppm Ceiling; 150 mg/m³ Ceiling
Prevent or reduce skin absorption
NIOSH: 50 ppm Ceiling; 150 mg/m³ Ceiling
Potential for dermal absorption

Methyl alcohol (67-56-1)

ACGIH: 200 ppm TWA
250 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA: 200 ppm TWA; 260 mg/m³ TWA
250 ppm STEL; 325 mg/m³ STEL
Prevent or reduce skin absorption
NIOSH: 200 ppm TWA; 260 mg/m³ TWA
250 ppm STEL; 325 mg/m³ STEL
Potential for dermal absorption

1,1,1-Trichloroethane (71-55-6)

ACGIH: 350 ppm TWA
450 ppm STEL
OSHA: 350 ppm TWA; 1900 mg/m³ TWA
450 ppm STEL; 2450 mg/m³ STEL
NIOSH: 350 ppm Ceiling (15 min); 1900 mg/m³ Ceiling (15 min)

Methylene chloride (75-09-2)

ACGIH: 50 ppm TWA
OSHA: 12.5 ppm Action Level; 25 ppm TWA; 125 ppm STEL (15 min. Cancer, cardiac effects, central nervous system effects, liver effects, and skin and eye irritation - See 29 CFR 1910.1052)

Perchloroethylene (127-18-4)

ACGIH: 25 ppm TWA
100 ppm STEL
OSHA: 25 ppm TWA; 170 mg/m³ TWA

ENGINEERING CONTROLS: Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.

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PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use NIOSH air-certified, air-supplied respirators (self-contained breathing apparatus or air-line) respiratory protective equipment when concentration of methanol or methylene chloride may exceed applicable exposure limits. Otherwise, use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

EYE PROTECTION: Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

SKIN PROTECTION: Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber (latex), polyvinyl chloride (PVC), neoprene or equivalent gloves is not recommended.

To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

PERSONAL HYGIENE: Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with this product.

OTHER PROTECTIVE EQUIPMENT: Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, APPEARANCE, AND ODOR: Liquid, clear and colorless, solvent odor
ODOR THRESHOLD: Not available.

MOLECULAR WEIGHT: Not available.

SPECIFIC GRAVITY: 0.83 (water = 1) (approximately)

DENSITY: 6.9 LB/US gal (830 g/L) (approximately)

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VAPOR DENSITY: 2.2 to 3.9 (air = 1) (approximately)

VAPOR PRESSURE: 86 mm Hg at 68°F (20°C)
205 mmHg at 100°F (38°C)

BOILING POINT: 133 to 342°F (56 to 172°C)

FREEZING/MELTING POINT: Not available

pH: Not applicable

EVAPORATION RATE: 3.7 (butyl acetate = 1) (based on a similar product)

SOLUBILITY IN WATER: Slight.

FLASH POINT: Less than 70°F (21°C) Tag Closed Cup

FLAMMABLE LIMITS IN AIR: **LOWER:** 1 VOL% (approximately) **UPPER:** 13 VOL% (approximately)

AUTOIGNITION TEMPERATURE: 800°F (427°C)

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures. Avoid heat, sparks, or flame.

CONDITIONS TO AVOID: Ignition sources and incompatible materials.

INCOMPATIBILITY: Avoid acids, alkalis, oxidizing agents, reducing agents, reactive halogens, or reactive metals.

REACTIVITY: Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal temperatures and pressures. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.**

SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICITY DATA:

Component Analysis - LD50/LC50

Toluene (108-88-3)

Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1 h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg

Methyl isobutyl ketone (108-10-1)

Inhalation LC50 Rat 8.2 mg/L 4 h; Oral LD50 Rat 2080 mg/kg; Dermal LD50 Rabbit >16000 mg/kg

Methyl propyl ketone (107-87-9)

Oral LD50 Rat 1600 mg/kg; Dermal LD50 Rabbit 6500 mg/kg

Methyl n-amyl ketone (110-43-0)

Oral LD50 Rat 1670 mg/kg; Dermal LD50 Rabbit 12600 µL/kg

C5 to C8 Aliphatic hydrocarbons (64741-89-5)

Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

Methyl ethyl ketone (78-93-3)

Inhalation LC50 Mouse 32 g/m³ 4 h; Oral LD50 Rat 2737 mg/kg; Dermal LD50 Rabbit 6480 mg/kg

C9 to C13 Aliphatic hydrocarbons (8030-30-6)

Oral LD50 Rat >5 g/kg; Dermal LD50 Rabbit >3 g/kg

Ethyl benzene (100-41-4)

Inhalation LC50 Rat 17.2 mg/L 4 h; Oral LD50 Rat 3500 mg/kg; Dermal LD50 Rabbit 15354 mg/kg

Acetone (67-64-1)

Oral LD50 Rat 5800 mg/kg

Ethyl acetate (141-78-6)

Oral LD50 Rat 5620 mg/kg; Dermal LD50 Rabbit >20 mL/kg; Dermal LD50 Rabbit >18000 mg/kg

Isopropyl acetate (108-21-4)

Oral LD50 Rat 6750 mg/kg; Dermal LD50 Rabbit >20000 mg/kg

Isobutyl acetate (110-19-0)

Oral LD50 Rat 13400 mg/kg; Dermal LD50 Rabbit >5000 mg/kg

Ethyl 3-ethoxypropanoate (763-69-9)

Oral LD50 Rat 3200 mg/kg; Dermal LD50 Rabbit 10 mL/kg

Propylene glycol monomethyl ether acetate (108-65-6)

Oral LD50 Rat 8532 mg/kg; Dermal LD50 Rabbit >5000 mg/kg

n-Butyl acetate (123-86-4)

Inhalation LC50 Rat 390 ppm 4 h; Oral LD50 Rat 10768 mg/kg; Dermal LD50 Rabbit >17600 mg/kg

Xylenes (o-, m-, p- isomers) (1330-20-7)

Inhalation LC50 Rat 5000 ppm 4 h; Inhalation LC50 Rat 47635 mg/L 4 h; Oral LD50 Rat 4300 mg/kg; Dermal LD50 Rabbit >1700 mg/kg

tert-Butyl alcohol (75-65-0)

Inhalation LC50 Rat >9700 ppm 4 h; Oral LD50 Rat 2733 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

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Isopropyl alcohol (67-63-0)

Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 mg/kg

Ethyl alcohol (64-17-5)

Oral LD50 Rat 7060 mg/kg

n-Butyl alcohol (71-36-3)

Inhalation LC50 Rat >17.7 mg/L 4 h; Inhalation LC50 Rat 8000 ppm 4 h; Oral LD50 Rat 790 mg/kg; Dermal LD50 Rabbit 3400 mg/kg

Methyl alcohol (67-56-1)

Inhalation LC50 Rat 83.2 mg/L 4 h; Inhalation LC50 Rat 64000 ppm 4 h; Oral LD50 Rat 5628 mg/kg; Dermal LD50 Rabbit 15800 mg/kg

1,1,1-Trichloroethane (71-55-6)

Inhalation LC50 Rat 18000 ppm 4 h; Oral LD50 Rat >2000 mg/kg; Dermal LD50 Rat >2000 mg/kg; Dermal LD50 Rabbit >15800 mg/kg

Methylene chloride (75-09-2)

Oral LD50 Rat >2000 mg/kg; Inhalation LC50 Rat 76000 mg/m³ 4 h

Perchloroethylene (127-18-4)

Inhalation LC50 Rat 4000 ppm 4 h; Oral LD50 Rat 2629 mg/kg; Dermal LD50 Mouse 2800 mg/kg

ACUTE EFFECTS:

Harmful by inhalation, in contact with skin and if swallowed. May be fatal or cause blindness if ingested. Irritating to respiratory system and skin. May be severely irritating to the eyes. High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects.

REPEATED DOSE EFFECTS:

Toluene, ethyl benzene, ethyl alcohol, isopropyl alcohol, methyl alcohol, xylene, 1,1,1-trichloroethane, methylene chloride and n-butyl alcohol have demonstrated experimental effects of mutagenicity. Perchloroethylene has demonstrated human effects of mutagenicity.

Based on best current information, the other components listed in **SECTION 2** are not mutagens.

Toluene, ethylbenzene, ethyl alcohol, isopropyl alcohol, methyl alcohol, perchloroethylene, and xylene have demonstrated animal effects of teragenicity.

Based on best current information, the other components listed in **SECTION 2** are not teratogens.

Toluene, ethyl benzene, methyl chloride, ethyl alcohol, xylene, perchloroethylene, isopropyl alcohol, n-butyl alcohol, and methyl ethyl ketone have demonstrated animal effects of reproductive toxicity. Based on best current information, the other components listed in **SECTION 2** are not reproductive toxicants. Also see **SECTION 15: CALIFORNIA**.

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CARCINOGENICITY:

Ethyl benzene, methylene chloride, and perchloroethylene are categorized by ACGIH as an animal carcinogen (A3). Ethyl benzene and methylene chloride are categorized by IARC as possibly carcinogenic to humans (Group 2B). Perchloroethylene is categorized by IARC as probably carcinogenic to humans (group 2A).

Ethyl benzene, methylene chloride, and perchloroethylene are listed by NTP as having sufficient evidence of carcinogenicity in experimental animals, but is not known or reasonably anticipated to be a human carcinogen according to NTP.

Based on best current information for the other components listed in **SECTION 2**, there is no known carcinogenicity as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

Also see **SECTION 3: CANCER INFORMATION** and **SECTION 15: CALIFORNIA**.

TARGET ORGAN EFFECTS:

Prolonged or repeated inhalation may cause brain, liver, kidney, heart, and central nervous system damage.

SECTION 12: ECOLOGICAL INFORMATION

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ECOTOXICITY: Toxic to fish/plants.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Toluene (108-88-3)

Test & Species	Concentration	Conditions
96 Hr LC50 Pimephales promelas	15.22-19.05 mg/L [flow-through]	1 day old
96 Hr LC50 Pimephales promelas	12.6 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.89-7.81 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	14.1-17.16 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.8 mg/L [semi-static]	
96 Hr LC50 Lepomis macrochirus	11.0-15.0 mg/L [static]	
96 Hr LC50 Oryzias latipes	54 mg/L [static]	
96 Hr LC50 Poecilia reticulata	28.2 mg/L [semi-static]	
96 Hr LC50 Poecilia reticulata	50.87-70.34 mg/L [static]	
96 Hr EC50 Pseudokirchneriella subcapitata	>433 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	12.5 mg/L [static]	

Methyl isobutyl ketone (108-10-1)

Test & Species	Concentration	Conditions
96 Hr LC50 Pimephales promelas	496-514 mg/L [flow-through]	
96 Hr EC50 Pseudokirchneriella subcapitata	400 mg/L	

Methyl propyl ketone (107-87-9)

Test & Species	Concentration	Conditions
96 Hr LC50 Pimephales promelas	1190-1290 mg/L [flow-through]	

Methyl n-amyl ketone (110-43-0)

Test & Species	Concentration	Conditions
96 Hr LC50 Pimephales promelas	126-137 mg/L [flow-through]	

C5 to C8 Aliphatic hydrocarbons (64741-89-5)

Test & Species	Concentration	Conditions
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L	

Methyl ethyl ketone (78-93-3)

Test & Species	Concentration	Conditions
96 Hr LC50 Pimephales promelas	3130-3320 mg/L [flow-through]	

C9 to C13 Aliphatic hydrocarbons (8030-30-6)

Test & Species	Concentration	Conditions
96 Hr LC50 Lepomis macrochirus	9.2 mg/L [static]	
72 Hr EC50 Pseudokirchneriella subcapitata	4700 mg/L	

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Ethyl benzene (100-41-4)		
Test & Species		Conditions
96 Hr LC50 Oncorhynchus mykiss	11.0-18.0 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	4.2 mg/L [semi-static]	
96 Hr LC50 Pimephales promelas	7.55-11 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	32 mg/L [static]	
96 Hr LC50 Pimephales promelas	9.1-15.6 mg/L [static]	
96 Hr LC50 Poecilia reticulata	9.6 mg/L [static]	
72 Hr EC50 Pseudokirchneriella subcapitata	4.6 mg/L	
96 Hr EC50 Pseudokirchneriella subcapitata	>438 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	2.6 - 11.3 mg/L [static]	
96 Hr EC50 Pseudokirchneriella subcapitata	1.7 - 7.6 mg/L [static]	
Acetone (67-64-1)		
Test & Species		Conditions
96 Hr LC50 Oncorhynchus mykiss	4.74-6.33 ml/L	
96 Hr LC50 Pimephales promelas	6210-8120 mg/L [static]	
96 Hr LC50 Lepomis macrochirus	8300 mg/L	
Ethyl acetate (141-78-6)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	220-250 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	484 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	352-500 mg/L [semi-static]	
48 Hr EC50 Desmodemus subspicatus	3300 mg/L	
Isobutyl acetate (110-19-0)		
Test & Species		Conditions
48 Hr LC50 Leuciscus idus melanotus	101 mg/L	
48 Hr LC50 Leuciscus idus melanotus	101-123 mg/L	
Ethyl 3-ethoxypropanoate (763-69-9)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	62 mg/L	
Propylene glycol monomethyl ether acetate (108-65-6)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	161 mg/L	
n-Butyl acetate (123-86-4)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	17-19 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	100 mg/L [static]	
96 Hr LC50 Leuciscus idus	62 mg/L [static]	
72 Hr EC50 Desmodemus subspicatus	674.7 mg/L	

SAFETY-KLEEN HEAVY DUTY LACQUER THINNER 6782
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

Xylenes (o-, m-, p- isomers) (1330-20-7)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	13.4 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	2.661-4.033 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	13.5-17.3 mg/L	
96 Hr LC50 Lepomis macrochirus	13.1-16.5 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	19 mg/L	
96 Hr LC50 Lepomis macrochirus	7.711-9.591 mg/L [static]	
96 Hr LC50 Pimephales promelas	23.53-29.97 mg/L [static]	
96 Hr LC50 Cyprinus carpio	780 mg/L [semi-static]	
96 Hr LC50 Cyprinus carpio	>780 mg/L	
96 Hr LC50 Poecilia reticulata	30.26-40.75 mg/L [static]	
tert-Butyl alcohol (75-65-0)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	6130-6700 mg/L [flow-through]	
72 Hr EC50 Desmodemus subspicatus	>1000 mg/L	
Isopropyl alcohol (67-63-0)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	9640 mg/L [flow-through]	
96 Hr LC50 Pimephales promelas	11130 mg/L [static]	
96 Hr LC50 Lepomis macrochirus	>1400000 µg/L	
96 Hr EC50 Desmodemus subspicatus	>1000 mg/L	
72 Hr EC50 Desmodemus subspicatus	>1000 mg/L	
Ethyl alcohol (64-17-5)		
Test & Species		Conditions
96 Hr LC50 Oncorhynchus mykiss	12.0-16.0 ml/L [static]	
96 Hr LC50 Pimephales promelas	>100 mg/L [static]	
n-Butyl alcohol (71-36-3)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	1730-1910 mg/L [static]	
96 Hr LC50 Pimephales promelas	1740 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	100000-500000 µg/L [static]	
96 Hr LC50 Pimephales promelas	1910000 µg/L [static]	
96 Hr EC50 Desmodemus subspicatus	>500 mg/L	
Methyl alcohol (67-56-1)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	28200 mg/L [flow-through]	
96 Hr LC50 Pimephales promelas	>100 mg/L [static]	

SAFETY-KLEEN HEAVY DUTY LACQUER THINNER 6782
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

1,1,1-Trichloroethane (71-55-6)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	35.2-50.7 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	57-90 mg/L [static]	
96 Hr LC50 Cyprinus carpio	56 mg/L [flow-through]	
96 Hr LC50 Poecilia reticulata	52.9 mg/L [flow-through]	
96 Hr LC50 Poecilia reticulata	69.7 mg/L [static]	
96 Hr LC50 Pimephales promelas	91-126 mg/L [static]	
Methylene chloride (75-09-2)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	140.8-277.8 mg/L [flow-through]	
96 Hr LC50 Pimephales promelas	262-855 mg/L [static]	
96 Hr LC50 Lepomis macrochirus	193 mg/L [static]	
96 Hr LC50 Lepomis macrochirus	193 mg/L [flow-through]	
96 Hr EC50 Pseudokirchneriella subcapitata	>500 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	>500 mg/L	
Perchloroethylene (127-18-4)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	12.4-14.4 mg/L [flow-through]	
96 Hr LC50 Pimephales promelas	8.6-13.5 mg/L [static]	
96 Hr LC50 Lepomis macrochirus	11.0-15.0 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	4.73-5.27 mg/L [flow-through]	
96 Hr EC50 Pseudokirchneriella subcapitata	>500 mg/L	
Toluene (108-88-3)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	25 mg/L	1 day old
96 Hr LC50 Oncorhynchus mykiss	24.0 mg/L	static
96 Hr LC50 Lepomis macrochirus	24.0 mg/L	static
96 Hr LC50 Lepomis macrochirus	13 mg/L	static
96 Hr EC50 Selenastrum capricornutum	>433 mg/L	
Methyl isobutyl ketone (108-10-1)		
Test & Species		Conditions
96 Hr LC50 Pimephales promelas	505 mg/L	flow-through
96 Hr EC50 Selenastrum capricornutum	400 mg/L	

SAFETY-KLEEN HEAVY DUTY LACQUER THINNER 6782
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

MOBILITY:	May cause long-term adverse effects in the aquatic environment.
BIOACCUMULATION/ ACCUMULATION:	Product is not expected to bioaccumulate.
MOBILITY IN ENVIRONMENTAL MEDIA:	No information available.
OTHER ADVERSE EFFECTS:	Toxic to fish/plants. See SECTION 12: ECOLOGICAL INFORMATION.
OCTANOL/WATER PARTITION COEFFICIENT:	Not available.
VOLATILE ORGANIC COMPOUNDS:	Up to 100 WT%; 6.9 lb/US gal (830 g/l) As per 40 CFR Part 51.100(s) Photochemically Reactive (up to 100% by volume) VOC VP @20°C = 86 mmHg (approx)

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL:	Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.
USEPA WASTE CODE(S):	D001, D018, D035, D039. Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product.

SECTION 14: TRANSPORT INFORMATION

DOT:	Shipping Name: Paint related material UN/NA #: UN1263 Hazard Class: 3 Packing Group: II Required Label(s): FLAMMABLE LIQUID
TDG:	Shipping Name: Paint related material UN/NA #: UN1263 Hazard Class: 3 Packing Group: II Required Label(s): FLAMMABLE LIQUID

SAFETY-KLEEN HEAVY DUTY LACQUER THINNER 6782
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

EMERGENCY RESPONSE 128
GUIDE NUMBER: Reference *North American Emergency Response Guidebook*

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

OSHA OSHA Regulated Chemicals
Ethyl benzene (100-41-4)
Select Carcinogen

Methylene chloride (75-09-2)
12.5 ppm Action Level; 25 ppm TWA; 125 ppm STEL (15 min. Cancer, cardiac effects, central nervous system effects, liver effects, and skin and eye irritation - See 29 CFR 1910.1052)
Specifically Regulated Chemical
Select Carcinogen

Perchloroethylene (127-18-4)
Select Carcinogen

SARA SECTIONS 302 AND 304: Based on the ingredient(s) listed in **SECTION 2**, these products do not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA SECTIONS 311 AND 312: This product poses the following health hazard(s) as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):
Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
Fire Hazard

SARA SECTION 313: This product does contain "toxic" chemical(s) subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Component	CAS
Toluene	108-88-3
Methyl isobutyl ketone	108-10-1
Ethyl benzene	100-41-1
Xylenes (o-, m-, p- isomers)	1330-20-7
tert-Butyl alcohol	75-65-0
Isopropyl alcohol	67-63-0
n-Butyl alcohol	71-36-3

SAFETY-KLEEN HEAVY DUTY LACQUER THINNER 6782
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

Methyl alcohol	67-56-1
1,1,1-Trichloroethane	71-55-6
Methylene chloride	75-09-2
Perchloroethylene	127-18-4

CERCLA: Based on the ingredient(s) listed in SECTION 2, this product contains the following "hazardous substance(s)" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

Component	CAS	RQ
Toluene	108-88-3	1000 LB (454 kg)
Methyl isobutyl ketone	108-10-1	5000 LB (2270 kg)
Methyl ethyl ketone	78-93-3	5000 LB (2270 kg)
Ethyl benzene	100-41-4	1000 LB (454 kg)
Acetone	67-64-1	5000 LB (2270 kg)
Ethyl acetate	141-78-6	5000 LB (2270 kg)
Isobutyl acetate	110-19-0	5000 LB (2270 kg)
n-Butyl acetate	123-86-4	5000 LB (2270 kg)
Xylenes	1330-20-7	100 LB (45.4 kg)
n-Butyl alcohol	71-36-3	5000 LB (2270 kg)
Methyl alcohol	67-56-1	5000 LB (2270 kg)
1,1,1-Trichloroethane	71-55-6	1000 LB (454 kg)
Methylene chloride	75-09-2	1000 LB (454 kg)
Perchloroethylene	127-18-4	100 LB (45.4 kg)

TSCA: All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

CALIFORNIA: This product may contain a detectable amount of benzene CAS 71-43-2, methylene chloride CAS 75-09-2 and perchloroethylene CAS 127-18-4. **WARNING:** These chemicals are known to the State of California to cause cancer.

This product contains detectable amounts of toluene CAS 108-88-3, benzene CAS 71-43-2, and ethyl alcohol CAS 64-17-5. **WARNING:** These chemicals are known to the State of California to cause birth defects or other reproductive harm.

SAFETY-KLEEN HEAVY DUTY LACQUER THINNER 6782
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

<p>SECTION 16. OTHER INFORMATION</p>

REVISION INFORMATION: Section 12, VOC.

LABEL/OTHER INFORMATION: Not available.

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.

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EXHIBIT F-6

EXAMPLE INCIDENT REPORTING FORM

**SAFETY-KLEEN CORP. - U.S. SERVICE CENTERS AND DCs/ACs/OCs
INCIDENT REPORT FORM**

Report all environmental incidents to the EHS Department immediately
(including fires, releases, etc.).

Facility Number: _____ Facility Location: _____

2. Incident Date: _____ Approx. Time Began: _____ Discovered: _____ Ended: _____

3. Reported By: _____

4. Incident Location: (a) If at S-K site, specify area of facility: _____
(b) If not at S-K site, specify location, contact, and phone #: _____

IF A RELEASE, COMPLETE THIS SECTION:

5. Describe incident in detail (if applicable include materials, volume released, and persons/property involved): _____

6. Materials involved: (common name, chemical name) _____

7. Cause of incident: _____

8. Injuries or property damage: _____

9. Describe response action and material not recovered: _____

10. Cleanup residue volume: _____ Spill Kit Restocked? Yes No

11. Emergency response contractor (specify name and phone #): _____

12. Emergency agencies at scene (names and phone #s): _____

13. Potential public exposure? yes no comments: _____

14. Describe actions taken to prevent recurrence: _____

15. Spill residue shipping papers (check): Bill of Lading Manifest Not Applicable

16. Emergency EPA ID # (offsite releases): _____

17. IF NOT A RELEASE, DESCRIBE INCIDENT: _____

18. Follow-up action: _____

19. Notification:

	S-K Infotrac 1-800-468-1760	State (SERC, EPA)	Nat'l Response Center 1-800-424-8802	Local (LEPC, other)
Required?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
Date/Time:	_____	_____	_____	_____
Contact name:	_____	_____	_____	_____
Report #:	_____	_____	_____	_____
Comments rec'd:	_____	_____	_____	_____

20. Written Reports:

Required? no yes no yes no yes no

Name of preparer (print): _____ Date: _____

Distribution: (1) immediately deliver/fax to facility Environmental Engineer; (2) within 24 hours fax to Environmental Affairs Manager; (3) file original in Facility Incident Report File (EHS 1430). (NO MAIL DISTRIBUTION REQUIRED.)

Note: Be sure to document the incident by taking photographs.

EXHIBIT F-7

MEMORANDUM OF AGREEMENT WITH EMERGENCY RESPONSE AGENCIES



December 17, 2010

Shawn Andrews, Administrative Assistant to the Chief
North Las Vegas Police Department
1301 East Lake Mead Boulevard
North Las Vegas, NV 89030

Dear Mr. Andrews

Pursuant to Nevada Hazardous Waste Regulations and Federal Regulations under 40 CFR 264.53, all revisions to a hazardous waste management facility's Contingency Plan must be provided to your office. The enclosed is a revised page to the Contingency Plan of Safety-Kleen's North Las Vegas, NV facility. Please replace the previous version of this page in your copy of this facility's Contingency Plan. The following changes are made:

The Emergency Information Sheet, is updated to reflect current phone numbers for the North Las Vegas Office of Emergency Management, the fact that the hospital listed has changed its name from Lake Mead Hospital to North Vista Hospital, and the emergency response contractor (OHM) has been purchased by SHAW Environmental and now operates as SHAW environmental.

In order to comply with 40 CFR 264.52(c) Safety-Kleen must document that arrangements have been made with your organization to assist Safety-Kleen, according to your capabilities, if called upon to respond to an emergency. Please acknowledge receipt of this Safety-Kleen Contingency Plan revision and the North Las Vegas Police Department's agreement to respond to an emergency if called upon to do so by sending an email to me at Gary.Olsen@safety-kleen.com stating that you will respond *or* by signing and faxing the attached response letter to me at 360-944-0905 *or* by signing and returning the attached response letter to:

Safety-Kleen Systems, Inc.
4582 North Donovan Way
North Las Vegas, NV 89081
Attn: Gary Olsen

If you do not have a copy of the facility's contingency plan, have any questions or desire to visit our facility please contact me at (541) 915-5179 or Dave Huntsman at (702) 657-2300.

Sincerely,

Gary Olsen
Environmental, Health and Safety Manager



Attachment 1

Emergency Information Sheet revised December 2010

Safety-Kleen Corp., North Las Vegas, Nevada

Emergency Information

A. Facility Emergency Coordinator

Name: David Huntsman

Alternate Coordinators

Name: Troy Russell

Address: 4019 Shadowwood Ave
Las Vegas, NV 89121

Address: 2613 Heathrow St
Las Vegas, NV 89135

Phone: H- (702) 436-6171
W-(702) 657-2300
C-(702) 296-7690

Phone: H- (702) 255-7985
W-(702) 657-2300
C-(702) 343-4073

B. Emergency Notification Phone Numbers

1 Internal – Safety-Kleen Environmental Department
24 – Hour Emergency Number (800) 468-1760

2 External – national Response Center
24 – Hour Emergency Number (800) 424-8802

3 North Las Vegas Office of Emergency Management
8:00 AM to 5:00 PM (702) 633-1125

After 5:00 PM (702) 303-0315

C. Emergency Team To Be Notified

North Las Vegas Fire Station (702) 633-1102 or 911

North Las Vegas Police Department (702) 649-9111 or 911

North Vista Hospital Medical Center (702) 649-7711 or 911

Shaw Environmental 24 hour Emergency Response Number (formerly OHM) (800) 537-9540

To Place an Intercom Call: Pick up phone, press button left line, and dial 6 for intercom

Shawn Andrews, Administrative Assistant to the Chief
North Las Vegas Police Department
1301 East Lake Mead Boulevard
North Las Vegas, NV 89030

Mr. Gary Olsen
Safety-Kleen Systems, Inc.
4582 Donovan Way
North Las Vegas, NV 89081

RE: Safety-Kleen Systems, Inc.
4582 Donovan Way
North Las Vegas, NV 89081
EPA ID # NVR 000066837
Contingency Plan Update

Dear Mr. Olsen:

This Letter is to acknowledge that this office has received the December 2010 revision to the Contingency Plan for the above referenced facility. The Plan and changes have been reviewed and the North Las Vegas Police Department can and will assist, according to its capabilities, the above referenced facility if called upon to respond to an emergency.

Sincerely,

Signature

Date

Olsen, Gary D

From: Dan Lake [laked@cityofnorthlasvegas.com]
Sent: Monday, December 27, 2010 8:29 AM
To: Olsen, Gary D
Subject: RE: 40 CFR Update

Follow Up Flag: Follow up

Flag Status: Red

Much appreciated.

D. Lake
633-2145

>>> "Olsen, Gary D" <Gary.Olsen@safety-kleen.com> 12/23/2010 9:05 AM >>>

Good morning Mr. Lake, and thanks for responding to my inquiry regarding the need to provide you with an updated copy of our facility contingency plan; attached you will find one.

Happy Holidays!!

Gary Olsen

From: Dan Lake [mailto:laked@cityofnorthlasvegas.com]
Sent: Thursday, December 23, 2010 9:45 AM
To: Olsen, Gary D
Subject: 40 CFR Update

Mr. Olsen -

I am in receipt of your revision to your current facility Contingency Plan, however a review of my records does not reflect that you have a current plan on file with our department. As part of my duties it is my responsibility to monitor and facilitate coordination of these plans within the Police Department.

If it would be possible to provide me with a copy of your plan I would greatly appreciate it. I can certainly come by and pick this document up at your office if that is acceptable.

In accordance with the North Las Vegas Police Department response protocols our organization will respond to and assistance in any emergency that requires a Law Enforcement presence. If you have any questions at any time please feel free to contact me.

Respectfully,

Daniel F. Lake, PhD
Sergeant
Homeland Security/Emergency Management Coordinator
North Las Vegas Police Department/CNLV-OEM

(702) 633-2145 office
(702) 303-0315 cell

laked@cityofnorthlasvegas.com

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Sent To: Shawn Andrews
North Las Vegas Police Dept
 Street, Apt. No., or PO Box No.
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7009 0080 0000 8600 6534

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <i>x [Signature]</i> 1841 <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>ANDRICE ICE TAY</i></p> <p>C. Date of Delivery <i>12-20</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p><i>Shawn Andrews Admin Asst to the Chief North Las Vegas Police Dept 1301 EAST Lake Mead Blvd North Las Vegas NV 89030</i></p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number <i>(Transfer from service label)</i></p> <p style="text-align: center;">7009 0080 0000 8600 6534</p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>



December 17, 2010



Janice Thomas, Fire Department
North Las Vegas Fire Department
4040 Losee Road
North Las Vegas, NV 89030

Dear Ms. Thomas,

Pursuant to Nevada Hazardous Waste Regulations and Federal Regulations under 40 CFR 264.53, all revisions to a hazardous waste management facility's Contingency Plan must be provided to your office. The enclosed is a revised page to the Contingency Plan of Safety-Kleen's North Las Vegas, NV facility. Please replace the previous version of this page in your copy of this facility's Contingency Plan. The following changes are made:

The Emergency Information Sheet, is updated to reflect current phone numbers for the North Las Vegas Office of Emergency Management, the fact that the hospital listed has changed its name from Lake Mead Hospital to North Vista Hospital, and the emergency response contractor (OHM) has been purchased by SHAW Environmental and now operates as SHAW environmental.

In order to comply with 40 CFR 264.52(c) Safety-Kleen must document that arrangements have been made with your organization to assist Safety-Kleen, according to your capabilities, if called upon to respond to an emergency. Please acknowledge receipt of this Safety-Kleen Contingency Plan revision and the Englewood Fire Department's agreement to respond to an emergency if called upon to do so by sending an email to me at Gary.Olsen@safety-kleen.com stating that you will respond *or* by signing and faxing the attached response letter to me at 360-944-0905 *or* by signing and returning the attached response letter to:

Safety-Kleen Systems, Inc.
4582 North Donovan Way
North Las Vegas, NV 89081
Attn: Gary Olsen

If you do not have a copy of the facility's contingency plan, have any questions or desire to visit our facility please contact me at (541) 915-5179 or Dave Huntsman at (702) 657-2300.

Sincerely,

Gary Olsen
Environmental, Health and Safety Manager



Attachment 1

Emergency Information Sheet revised December 2010

Safety-Kleen Corp., North Las Vegas, Nevada

Emergency Information

A. Facility Emergency Coordinator

Name: David Huntsman

Address: 4019 Shadowwood Ave
Las Vegas, NV 89121

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W-(702) 657-2300
C-(702) 296-7690

Alternate Coordinators

Name: Troy Russell

Address: 2613 Heathrow St
Las Vegas, NV 89135

Phone: H- (702) 255-7985
W-(702) 657-2300
C-(702) 343-4073

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2 External – national Response Center
24 – Hour Emergency Number (800) 424-8802

3 North Las Vegas Office of Emergency Management
8:00 AM to 5:00 PM (702) 633-1125
After 5:00 PM (702) 303-0315

C. Emergency Team To Be Notified

North Las Vegas Fire Station (702) 633-1102 or 911

North Las Vegas Police Department (702) 649-9111 or 911

North Vista Hospital Medical Center (702) 649-7711 or 911

Shaw Environmental 24 hour Emergency Response Number (formerly OHM) (800) 537-9540

To Place an Intercom Call: Pick up phone, press button left line, and dial 6 for intercom

Janice Thomas, Fire Department
North Las Vegas Fire Department
4040 Losee Road
North Las Vegas, NV 89030

Mr. Gary Olsen
Safety-Kleen Systems, Inc.
4582 Donovan Way
North Las Vegas, NV 89081

RE: Safety-Kleen Systems, Inc.
4582 Donovan Way
North Las Vegas, NV 89081
EPA ID # NVR 000066837
Contingency Plan Update

Dear Mr. Olsen:

This Letter is to acknowledge that this office has received the December 2010 revision to the Contingency Plan for the above referenced facility. The Plan and changes have been reviewed and the North Las Vegas Fire Department can and will assist, according to its capabilities, the above referenced facility if called upon to respond to an emergency.

Sincerely,

Signature

Date

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Return Receipt Fee (Endorsement Required)	\$2.30
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$ 5.54

037B
 02
 Postmark Here
 12/17/2010

Sent To JANICE THOMAS
 Street, Apt. No., or PO Box No. North Las Vegas Fire Dept
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
JANICE THOMAS
North Las Vegas Fire Dept
4040 Las Vegas Road
North Las Vegas
NV 89030

2. Article Number
 (Transfer from service label) 7009 0080 0000 8600 6541

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Libby Welles Addressee

B. Received by (Printed Name) Libby Welles

C. Date of Delivery 12/20/10

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes



December 17, 2010



Terrence Whitt
Shaw Group
11560 Great Oaks Way, Suite 500
Alpharetta, GA 30022-2424

Dear Mr. Whitt,

Pursuant to Nevada Hazardous Waste Regulations and Federal Regulations under 40 CFR 264.53, all revisions to a hazardous waste management facility's Contingency Plan must be provided to your office. The enclosed is a revised page to the Contingency Plan of Safety-Kleen's North Las Vegas, NV facility. Please replace the previous version of this page in your copy of this facility's Contingency Plan. The following changes are made:

The Emergency Information Sheet, is updated to reflect current phone numbers for the North Las Vegas Office of Emergency Management, the fact that the hospital listed has changed its name from Lake Mead Hospital to North Vista Hospital, and the emergency response contractor (OHM) has been purchased by SHAW Environmental and now operates as SHAW environmental.

In order to comply with 40 CFR 264.52(c) Safety-Kleen must document that arrangements have been made with your organization to assist Safety-Kleen, according to your capabilities, if called upon to respond to an emergency. Please acknowledge receipt of this Safety-Kleen Contingency Plan revision and the Shaw Groups agreement to respond to an emergency if called upon to do so by sending an email to me at Gary.Olsen@safety-kleen.com stating that you will respond *or* by signing and faxing the attached response letter to me at 360-944-0905 *or* by signing and returning the attached response letter to:

Safety-Kleen Systems, Inc.
4582 North Donovan Way
North Las Vegas, NV 89081
Attn: Gary Olsen

If you do not have a copy of the facility's contingency plan, have any questions or desire to visit our facility please contact me at (541) 915-5179 or Dave Huntsman at (702) 657-2300.

Sincerely,

A handwritten signature in black ink that reads 'Gary Olsen'.

Gary Olsen
Environmental, Health and Safety Manager



Attachment 1

Emergency Information Sheet revised December 2010

Safety-Kleen Corp., North Las Vegas, Nevada

Emergency Information

A. Facility Emergency Coordinator

Name: David Huntsman

Alternate Coordinators

Name: Troy Russell

Address: 4019 Shadowwood Ave
Las Vegas, NV 89121

Address: 2613 Heathrow St
Las Vegas, NV 89135

Phone: H- (702) 436-6171
W-(702) 657-2300
C-(702) 296-7690

Phone: H- (702) 255-7985
W-(702) 657-2300
C-(702) 343-4073

B. Emergency Notification Phone Numbers

1 Internal – Safety-Kleen Environmental Department
24 – Hour Emergency Number (800) 468-1760

2 External – national Response Center
24 – Hour Emergency Number (800) 424-8802

3 North Las Vegas Office of Emergency Management
8:00 AM to 5:00 PM (702) 633-1125

After 5:00 PM (702) 303-0315

C. Emergency Team To Be Notified

North Las Vegas Fire Station (702) 633-1102 or 911

North Las Vegas Police Department (702) 649-9111 or 911

North Vista Hospital Medical Center (702) 649-7711 or 911

Shaw Environmental 24 hour Emergency Response Number (formerly OHM) (800) 537-9540

To Place an Intercom Call: Pick up phone, press button left line, and dial 6 for intercom

Terrence Whitt
Shaw Group
11560 Great Oaks Way, Suite 500
Alpharetta, GA 30022-2424

Mr. Gary Olsen
Safety-Kleen Systems, Inc.
4582 Donovan Way
North Las Vegas, NV 89081

RE: Safety-Kleen Systems, Inc.
4582 Donovan Way
North Las Vegas, NV 89081
EPA ID # NVR 000066837
Contingency Plan Update

Dear Mr. Olsen:

This Letter is to acknowledge that this office has received the December 2010 revision to the Contingency Plan for the above referenced facility. The Plan and changes have been reviewed and the Shaw Group can and will assist, according to its capabilities, the above referenced facility if called upon to respond to an emergency.

Sincerely,

Signature

Date

Terrence Whitt
Shaw Group
11560 Great Oaks Way, Suite 500
Alpharetta, GA 30022-2424

Mr. Gary Olsen
Safety-Kleen Systems, Inc.
4582 Donovan Way
North Las Vegas, NV 89081

RE: Safety-Kleen Systems, Inc.
4582 Donovan Way
North Las Vegas, NV 89081
EPA ID # NVR 000066837
Contingency Plan Update

Dear Mr. Olsen:

This Letter is to acknowledge that this office has received the December 2010 revision to the Contingency Plan for the above referenced facility. The Plan and changes have been reviewed and the Shaw Group can and will assist, according to its capabilities, the above referenced facility if called upon to respond to an emergency.

Sincerely,

Signature



Date 12/3/10

Shaw Env. Inc.

December 2, 2010

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

ALPHARETTA, GA 30022 **OFFICIAL USE**

7009 0080 0000 8600 6527

Postage	\$ 0.44
Certified Fee	\$2.80
Return Receipt Fee (Endorsement Required)	\$2.30
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$ 5.54

0378
 02
 Postmark Here
 12/17/2010

Sent To Terry Whit
 Street, Apt. No., or PO Box No. Show Grand
 City, State, ZIP+4 Alpharetta GA 30022-2434

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature X <u>Cathy Biel</u> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Cathy Biel</u></p> <p>C. Date of Delivery <u>12/20</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p><u>Terry Whit</u> <u>Show Grand</u> <u>11560 Great Oaks Way, Suite 500</u> <u>Alpharetta</u> <u>GA</u> <u>30022-2434</u></p>	<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p>	<p><u>7009 0080 0000 8600 6527</u></p>





December 17, 2010

Damon Goodrich
Director of Non Medical Services
North Vista Medical Center
1409 East Lake Mead Boulevard
North Las Vegas, NV 89030

Dear Mr. Goodrich,

Pursuant to Nevada Hazardous Waste Regulations and Federal Regulations under 40 CFR 264.53, all revisions to a hazardous waste management facility's Contingency Plan must be provided to your office. The enclosed is a revised page to the Contingency Plan of Safety-Kleen's North Las Vegas, NV facility. Please replace the previous version of this page in your copy of this facility's Contingency Plan. The following changes are made:

The Emergency Information Sheet, is updated to reflect current phone numbers for the North Las Vegas Office of Emergency Management, the fact that the hospital listed has changed its name from Lake Mead Hospital to North Vista Hospital, and the emergency response contractor (OHM) has been purchased by SHAW Environmental and now operates as SHAW environmental.

In order to comply with 40 CFR 264.52(c) Safety-Kleen must document that arrangements have been made with your organization to assist Safety-Kleen, according to your capabilities, if called upon to respond to an emergency. Please acknowledge receipt of this Safety-Kleen Contingency Plan revision and the North Vista Hospital's agreement to respond to an emergency if called upon to do so by sending an email to me at Gary.Olsen@safety-Kleen.com stating that you will respond *or* by signing and faxing the attached response letter to me at 360-944-0905 *or* by signing and returning the attached response letter to:

Safety-Kleen Systems, Inc.
4582 North Donovan Way
North Las Vegas, NV 89081
Attn: Gary Olsen

If you do not have a copy of the facility's contingency plan, have any questions or desire to visit our facility please contact me at (541) 915-5179 or Dave Huntsman at (702) 657-2300.

Sincerely,

A handwritten signature in cursive script that reads "Gary Olsen".

Gary Olsen
Environmental, Health and Safety Manager



Attachment 1

Emergency Information Sheet revised December 2010

Safety-Kleen Corp., North Las Vegas, Nevada

Emergency Information

A. Facility Emergency Coordinator

Name: David Huntsman

Address: 4019 Shadowwood Ave
Las Vegas, NV 89121

Phone: H- (702) 436-6171
W-(702) 657-2300
C-(702) 296-7690

Alternate Coordinators

Name: Troy Russell

Address: 2613 Heathrow St
Las Vegas, NV 89135

Phone: H- (702) 255-7985
W-(702) 657-2300
C-(702) 343-4073

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2 External – national Response Center
24 – Hour Emergency Number (800) 424-8802

3 North Las Vegas Office of Emergency Management
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After 5:00 PM (702) 303-0315

C. Emergency Team To Be Notified

North Las Vegas Fire Station (702) 633-1102 or 911

North Las Vegas Police Department (702) 649-9111 or 911

North Vista Hospital Medical Center (702) 649-7711 or 911

Shaw Environmental 24 hour Emergency Response Number (formerly OHM) (800) 537-9540

To Place an Intercom Call: Pick up phone, press button left line, and dial 6 for intercom

Damon Goodrich
Director of Non Medical Services
North Vista Medical Center
1409 East Lake Mead Boulevard
North Las Vegas, NV 89030

Mr. Gary Olsen
Safety-Kleen Systems, Inc.
4582 Donovan Way
North Las Vegas, NV 89081

RE: Safety-Kleen Systems, Inc.
4582 Donovan Way
North Las Vegas, NV 89081
EPA ID # NVR 000066837
Contingency Plan Update

Dear Mr. Olsen:

This Letter is to acknowledge that this office has received the December 2010 revision to the Contingency Plan for the above referenced facility. The Plan and changes have been reviewed and the North Vista Hospital can and will assist, according to its capabilities, the above referenced facility if called upon to respond to an emergency.

Sincerely,

Signature

Date

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

**NO POSTAGE
 NECESSARY
 IF MAILED
 IN THE
 UNITED STATES**

7008 3230 0000 2825 4998

Postage	\$ 40.44
Certified Fee	\$2.80
Return Receipt Fee (Endorsement Required)	\$2.30
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$ 45.54

0378
 02
 Postmark
 Here
 12/17/2010

Sent To Damon Goodrich
 Street Apt. No. or PO Box No. North Vista Medical CTR
 City, State, ZIP+4 North Las Vegas NV 89030
 PS Form 3800 August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Damon Goodrich
 Director of non-medical Svcs
 North Vista Hospital
 1409 East Lake Mead Blvd
 North Las Vegas NV
 89030

2. Article Number

(Transfer from service label)

7008 3230 0000 2825 4998

COMPLETE THIS SECTION ON DELIVERY

A. Signature Z. Saunders Agent Addressee

B. Received by (Printed Name) Z SAUNDERS C. Date of Delivery 12-20

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

APPENDIX G

TRAINING INFORMATION

APPENDIX G

Exhibits

G-1 JOB DESCRIPTIONS

G-2 EXAMPLE TRAINING PLAN OUTLINE

EXHIBIT G-1

JOB DESCRIPTIONS

Job Description

Job Title: Branch General Manager
Department: Branch Sales & Service
Reports To: District Manager
FLSA Status: Exempt
Approved By: SVP HR
Approved Date: 01/29/07

Summary: The Branch General Manager is responsible for financial and operational management including: financial performance against quota or budget (P & L), EH&S compliance through the Environmental Management System (EMS), and operational management of the facilities and of the human resources.

Essential Duties and Responsibilities include but are not limited to the following.

- Manage the branch operations including hiring, training, and supervision of the staff.
- Manage sales and service staff in achieving customer retention, on-time service performance, and accounts receivable goals by: observing corporate operating guidelines, training and reinforcing critical service skills, and working to prevent and resolve customer service issues.
- Conduct inspections and ride-alongs with sales and service staff to ensure timely and effective servicing of customers' equipment.
- Profit or loss of the facility(ies) by focusing on building new business relationships and maintaining existing customer bases and satisfaction.
- Prepare branch sales/service forecast and budget.
- Ensure compliance with all applicable environmental, health, and safety (EHS) requirements by working with corporate EHS resources to keep all training and record keeping up to date, and by monitoring daily operations to assure performance is within regulatory guidelines.
- Maintenance of branch fleet to company standards, assistance with branch incident alert and spill response systems, and control of branch inventory.
- Maximize collection of money at the time of service, collect on overdue accounts, and determine when to pull an account.
- Ensure that all branch customer service practices are conducted consistent with high ethical standards.

Supervisory Responsibility:

The Branch General Manager recommends hiring, training, scheduling, performance appraisal, promoting, compensation, corrective action and termination.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Education and/Or Experience: Minimum of High School diploma or (GED). Bachelor's degree preferred. At least 5 years experience in a sales and service organization.

Certificates, Licenses, Registrations: Class B CDL, Haz Mat, Air Brakes and Tankers endorsement.

Physical Demands: While performing the duties of this job, the employee must frequently sit for long periods of time, use the computer, as well as occasionally lift up to 25 pounds. There will also be some occasional need for bending, kneeling, or reaching.

Work Environment: While performing the duties of this job, the employee has some exposure to warehouse as well as outside weather conditions. The employee is occasionally exposed to wet and/or humid conditions; extreme cold; extreme heat.

Job Description

Job Title: Customer Service Manager
Department: Branch Services
Reports To: Branch General Manager
FLSA Status: Exempt
Approved By: SVP HR
Approved Date: 01/29/07

Summary: The Customer Service Manager is responsible for ensuring optimum customer service leading to retention and expansion of the branch business. Key responsibilities include supervising customer service staff, ensuring services are completed in a timely manner, and managing customer relationships.

Essential Duties and Responsibilities include but are not limited to the following.

- Manage the branch customer service functions including hiring, training and supervision of the sales and service representatives (SSR).
- Manage sales and service staff in achieving customer retention, on-time service performance, and accounts receivable goals by: observing corporate operating guidelines, training and reinforcing critical service skills, and working to prevent and resolve customer service issues.
- Conduct inspections and ride-alongs with sales and service staff to ensure timely and effective servicing of customers' equipment.
- Direct branch service scheduling and logistics to ensure on-time performance for all customers by aligning territories, defining routes, and managing associated paperwork.
- Ensure SSR compliance with all applicable environmental, health, and safety (EHS) requirements by working with corporate EHS resources to keep all training and record keeping up to date, and by monitoring daily operations to assure performance is within regulatory guidelines.
- Work with Branch General Manager (BGM) to ensure effective operation of the branch including maintenance and operation of branch fleet to company standards, assistance with branch incident alert and spill response systems, and control of branch inventory.
- Administer branch accounts receivable program to maximize collection of money at the time of service, collect on overdue accounts, and determine when to pull an account.
- Ensure that all branch customer service practices are conducted consistent with high ethical standards.

Supervisory Responsibility:

The Customer Service Manager recommends hiring, training, scheduling, performance appraisal, promoting, compensation, and termination.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/Or Experience: High school diploma or (GED). 3-5 years experience and/or related training.

Certificates, Licenses, Registrations: Class B CDL, Haz Mat, Air Brakes and Tankers endorsement.

Physical Demands: While performing the duties of this job, the employee must frequently stand, walk, bend, use the computer, reach, squat, stoop and twist. The employee must frequently carry, lift, pull or push up to 50 pounds. The employee will occasionally drive a large truck.

Work Environment: While performing the duties of this job, the employee is frequently exposed to warehouse and outside weather conditions. The employee is occasionally exposed to wet and/or humid conditions; extreme cold; extreme heat.

Job Description

Job Title: Material Handler
Department: Branch Services
Reports To: Branch General Manager
FLSA Status: Exempt
Approved By: SVP HR
Approved Date: 03/26/07

Summary: The Material Handler works in the warehouse handling hazardous waste material using a forklift or other equipment.

Essential Duties and Responsibilities include but are not limited to the following.

- Loads finished product bulk shipments, and completes paperwork.
- Samples inbound bulk shipments and completes paperwork.
- Inventory and maintain loading and unloading areas.
- Prepares bulk wastes for shipment to other Safety-Kleen locations.
- Empties bulk into holding vessel
- Washes "RCRA Empty" drums in drum washer and fills clean drums with solvent.
- Shrink wraps containerized wastes, arranging the waste on the pallet so all labels are showing, and prepares the shipment for transportation to other Safety-Kleen locations.
- Checks all trucks for proper strapping of drums and that cargo doors are closed.
- Disassembles returned parts washing machines and prepares them for shipment to the DC.
- Completes daily/weekly facility inspection required by Part B Permit or by Safety-Kleen, as assigned by the Branch Manager.
- Monitors waste quantity and storage limits and notifies the Branch Manager if limits will be exceeded within 24-48 hours so action can be taken.
- Oversees retained sample program.
- Ensure dock, warehouse and return & fill areas are cleaned and organized at all times.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/or Experience: High school diploma and six months+ related experience, and/or training. Familiar with H.S.E. and M.S.D.S. for all product used and stored at the facility. Certified forklift operator. Certified in hazardous waste operations and emergency response.

Competencies and Skills: Customer Service, Attention to Detail, Recognize the importance of Safety, Time Management, Product Knowledge, Sense of Direction, and Organization skills.

Physical Demands: Exert up to 50 pounds of force occasionally, and/or up to 20 pounds of force frequently, and/or up to 10 pounds of force constantly to move objects. Stands and/or walks more than 4 hours a day. Hand Tools & Small Power Tools; Hand Truck/Dolly; Large Power Tools & Equipment, Forklift, Truck, Wench; Personal Protective Equipment.

Job Description

Job Title: Sales and Service Representative
Department: Branch Services
Reports To: Branch Service Manager
FLSA Status: Exempt
Approved By: SVP HR
Approved Date: 01/29/07

Summary: Services SK machines at customer sites, sells new products to existing customers, removes waste from customer sites and provides on-site customer service.

Essential Duties and Responsibilities include but are not limited to the following.

- Receive manifests, labels, route schedule from office staff.
- Select, pull, and load needed inventory (empty drums, pig products, new machines, etc) per route schedule.
- Perform daily truck check & complete truck check list form.
- Perform routine route
- Properly label, scan, and document waste picked up from customer site.
- Present receipt to customer as well as address any customer service issues or sales opportunities.
- Complete end of day paperwork.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/Or Experience: High school diploma or (GED) and six months+ related experience, and/or training.

Certificates, Licenses, Registrations: Class C CDL and hazmat certifications.

Competencies and Skills: Customer Service, Attention to Detail, Recognize the importance of Safety, Time Management, Product Knowledge, Sense of Direction, Knowledge of Hazardous Waste, and Organization skills.

Physical Demands: While performing the duties of this job, the employee must frequently sit, walk, stand, crawl or drive a truck. The employee must frequently carry, lift, pull or push 50 pounds or more. The employee is constantly required to reach, bend, kneel, squat, climb, stoop or twist; and talk or hear. The employee must constantly drive a large truck and/or move heavy equipment.

Work Environment: While performing the duties of this job, the employee is frequently exposed to moving mechanical parts and outside weather conditions. The employee is occasionally exposed to wet and/or humid conditions; high, precarious places; fumes or airborne particles; extreme cold; extreme heat; and risk of electrical shock.

Job Description

Job Title: MSS
Department: Sales
Reports To: District Sales Manager
FLSA Status: Exempt
Approved By: SVP HR
Approved Date: 01/29/07

Summary: The MSS will continually manage an account base outside of the ordinary service schedule. This position will also grow business internally and externally. The MSS will act as the primary point of contact for customers with questions / concerns / new business. This should be a motivated person who possesses consultative selling abilities and who is skilled at building long-term business relationships within the assigned sales territory.

Essential Duties and Responsibilities include but are not limited to the following.

- Completion of necessary paperwork (waste profiling, quotations etc).
- Communication with service, office, and warehouse staff.
- Build relationships with key buyers in territory.
- Assess current/potential business in existing accounts and create strategy to grow business.
- Analyze customer needs and design sales, customer service and account management processes to acquire and retain accounts.
- Prepare and deliver customer quotes and identify new solutions for customers
- Provide technical and sales assistance to customers.
- Serve as interface between customers and company by ensuring that customer needs are met and by handling customer complaints.
- Prepare sales plans and future period forecast's.
- Monitor and track sales plan to ensure sales quota is met; prepare regular status reports.
- Keep abreast of products, market conditions and competitive activities.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/or Experience: Two years of college or specialized training (business or environmental) is required plus 1-3 years experience. Bachelor's degree plus coursework and certification is preferred. Alternative combinations of education and experience may be accepted in lieu of degree.

Competencies and Skills: Analytical, prioritization, organization, computer and leadership skills. Must be proficient working with spreadsheets as well as CRM software tools.

Physical Demands: While performing the duties of this job, the employee must frequently drive a car.

Job Description

Job Title: Branch Administrator
Department: Branch Services
Reports To: Branch General Manager
FLSA Status: Exempt
Approved By: SVP HR
Approved Date: 03/26/07

Summary: The Branch Administrator is an administrative position responsible for maintaining detailed and accurate company, branch, and customer files.

Essential Duties and Responsibilities include but are not limited to the following.

- Assembles packages of documents for Sales Representatives.
- Check Sales or Hazardous Waste documents turned in by Sales Representatives.
- Ensure proper completion of paperwork including manifests, and alert manager of errors.
- Provide customer service functions by responding to customer inquiries and/or complaints, handling or routing service questions, and solving problem accounts.
- Prepare Manual Forms, Manifests and LDR forms, as required.
- Distribute copies of service documents and manifests to customers, various Safety-Kleen locations, and to governmental agencies, as required.
- Contact customers delinquent in payment and coordinates pick-up of payments.
- Log wastes, adjusts service scheduling, prepares reports, completes MMVR reports and checks manifests for assigned territories.
- Provide other clerical support duties as requested.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/Or Experience: High school diploma and six months+ related experience, and/or training.

Competencies and Skills: Customer Service, Attention to Detail, Recognize the importance of Safety, Time Management, Product Knowledge, Sense of Direction, and Organization skills.

Physical Demands: While performing the duties of this job, the employee must frequently sit at a work station using the computer.

EXHIBIT G-2

EXAMPLE TRAINING PLAN OVERVIEW

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SK Training

This Site: SK Training Courses



Courses

Human Resources > Training > SK Training Courses > SK Training Courses > HMTS Refresher

SK Training Courses: HMTS Refresher

Alert Me

Course Title	HMTS Refresher
Course Category	Environmental & Transportation (ET)
Course Keyword	
Course Number	HMTS_RE
Course Description	This course provides general awareness training as mandated for Hazmat employees by the US Department of Transportation. This module complements the 8 hour HAZWOPER Refresher (HS 104) and the annual RCRA update(ET 140). Unlike HS 104 and ET 140 , this module focuses on transportation related issues in addition to site safety. This certification is required and will be maintained with facility records. This course is not intended to be used as initial training required by US DOT.

HMTS_RE can be taken through SK eLearning. The course can be found under Regulatory ET in the Course Type Filter.

This course will fulfill the HMTS for Admin course requirement

Objectives	<ul style="list-style-type: none"> • Describe and implement revised or new procedures affected by changes in US DOT regulations. • Respond effectively to transportation related emergencies through emergency procedures, equipment, and systems • Comply with all applicable US DOT provisions and conduct other duties.
-------------------	---

Prerequisites HMTS Initial Course

Refresher Every 3 years

Course Duration 4 Hours

Class Min 1

Class Max 15

Target Audience HazMat Employees

Equipment

Instructor Certification Certified SK regulatory trainers

Materials Participant Guide; Other Materials

Course Comments

Course Number - Title HMTS_RE-HMTS Refresher

Safety-Kleen Training Program Overview

Safety-Kleen's training program is designed to ensure that facility personnel are able to respond to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems. The training program complies with 40 CFR 264.16 (a) (3) and includes, as appropriate, the following:

- Procedures for using, inspecting, repairing, and replacing facility emergency and maintaining equipment;
- Automatic waste feed cut-off systems;
- Communication procedures and alarm systems;
- Response to fire and explosions;
- Shutdown of facility operations

Additional information on Safety-Kleen's training program, including additional training topics, follows.

Courseware and Materials

The Training Department is responsible for providing course materials for federally mandated training to the company. Centrally developing course materials ensures that training is consistent throughout Safety-Kleen's business units. Providing consistent training means that when employees are transferred throughout Safety-Kleen, prior training is readily transferable and overlap between training programs is minimized.

Centrally developing course materials also guarantees that all courses conform to the requirements of both the Regulatory Compliance Department and the Health & Safety Department. Since new regulations are enacted every day, both the Regulatory Compliance Department and the Health & Safety Department continually survey the legislature for regulatory changes that impact Laidlaw. As regulations are enacted that affect training, current courseware is revised to meet any changes or new courses are developed. The content of each regulatory course is reviewed and approved by the departments mentioned above before being released as a training module.

To reduce the cost of shipping, qualified instructors who receive courseware are responsible for the reproduction of the course materials for participants. Course materials can be easily downloaded from the Courses menu on the Lotus Notes S-K Corporate Training Department database.

In addition to courseware, the Training Department provides two types of training materials to supplement the regulatory compliance training program. First, the Training Department maintains a list of vendors who provide regulatory reference materials to accompany the regulatory classes. Please note that these reference materials must be ordered directly from the supplier.

The second type of training materials include videos, software, and books. Typically, these materials supplement classroom training but may also provide quick information about a particular subject. For example, in the course of working with you on a training related issue, a certain video and workbook might be of benefit to you in finding a useful solution. This would then be discussed and loaned to you for your review.

Requirements-Descriptions-Notes

Trainer Requirements

Qualified Trainer

Qualified Trainers are individuals that possess the subject matter knowledge and experience to teach a certain course. Qualified Trainers are identified by branch management. An instructor file should be maintained at the branch for all qualified trainers at the branch.

Certified Trainer

Certified Trainers have attended an instructional technology course to satisfy the requirements of 29 CFR 1910.120 in order to assure consistent, standard training throughout Safety-Kleen. Any person who wishes to teach classes requiring a certified instructor must complete TT 305, unless they can provide evidence that they possess the educational technology skills and training from another source. Equivalent training may include:

- The individual has a degree in education
- The individual is a Certified Environmental Trainer
- The individual has attended an outside professional trainer course that has been approved by the Corporate Regulatory Training department.

Descriptions

RTC: Regulatory Training Center

RTC Trainer: Regulatory Training Center Trainer

Comments/Notes for "Req'd" column on US worksheet

US NOTES:

- (1) Required if one of the following is met in any given day: drives over a 100 mile radius, has 11 hours of driving time, is out on a route for 12 hours or more
 - (2) Required only if employee operates a cargo tank trailer, vacuum tank truck, or oil tank truck.
 - (3) Required only if employee is involved in rail tank car inspections or operations.
 - (4) Required only if employee is involved in shipping samples.
 - (5) Required only if employee is involved in manifesting or transportation paperwork
 - (6) Required only if employee holds a Commercial Driver's License
- ** Recommended
*HS_101RTC includes ET_237 Drum Inspection and Closure

Course Code	Description	Req'd	Delivered By	Where	When
ET_100_1	EMS / ISO Overview	Yes	SK eLearning	Fr Intranet Conn.	Annual
ET_100E	EMS for Branch Management	Yes	SK eLearning	Fr Intranet Conn	Initial
ET_131	USDOT Regulations: HazMat Regulations (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_132	USDOT Regulations: Hazard Classes (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_140	RCRA Update (permitted locations only)	Yes	Qualified Trainer or EHS Mgr	Branch	Initial / Annual
ET_141	RCRA (Training should be accomplished by attending BITT or ABTT at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_160	Entry Level Driver Training	See Note 6	RTC Trainer or Qualified Trainer	RTC or Branch	Initial
ET_172	Pre and Post Trip Inspections	See Note 6	RTC Trainer, Qualified Trainer, or by completing BOG OB_420006	RTC or Branch	Initial
ET_176	Driver Safety Training / Defensive Driving	Yes	Qualified Trainer, or by completing BOG OB_420-005	Branch	Initial / Triennial
ET_177A	Haz Materials Security Plan for Employees	Yes	RTC Trainer or SK eLearning	RTC or Fr Intranet Conn	Every three years
ET_177B	Haz Material Security Plan for Supervisors	Yes	SK eLearning	Fr Intranet Conn	Every three years
ET_231	USDOT Regulations: Hazardous Materials Table (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_232	USDOT Regulations: Shipping Papers (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_233	USDOT/EPA Regulations: Labeling and Marking (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_234	USDOT Regulations: Placarding (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_235	Hazardous Materials: Segregation (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_236	USDOT Regulations: UN Packaging Authorizations and Specifications (POPS) (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_237	Drum Inspection and Closure (Initial training is included in HS_101RTC, 24 Hr-Hazwoper at the RTC)	Yes	Initial: RTC Trainer or SK eLearning / Triennial, Qualified Trainer, EHS Mgr, Transp Compliance Mgr, or SK eLearning	Initial RTC or Branch / Triennial, Branch or Fr Intranet Conn.	Initial / Triennial
ET_255	ABTT / Advanced Branch Technical Training	Rec**	RTC Trainer or SK Certified Instructor	RTC	Initial
ET_330	Shipping Hazardous Materials Samples (Initial training should be accomplished by attending BITT or ABTT at the RTC)	Yes	Initial: RTC Trainer / Triennial, Qualified Trainer, EHS Mgr, Transp Compliance Mgr, or SK eLearning	Initial RTC / Triennial Branch or Fr Intranet Conn	Initial / Triennial
ET_HMTS	Hazardous Materials Transportation Skills (Initial)	Yes	RTC Trainer	RTC	Initial
ET_HMTS_RE	Hazardous Materials Transportation Skills Refresher (Triennial)	Yes	EHS Mgr, Transp Compliance Mgr, SK Certified Instructor, or SK eLearning	Branch or Fr Intranet Conn	Triennial
HS_101 / HS_101RTC	24 Hour Hazwoper / 24 Hour Hazwoper at the RTC	Yes	RTC Trainer	RTC	Initial
HS_104	8 Hour HAZWOPER Refresher	Yes	EHS Mgr or SK Certified Instructor	Branch	Annual
HS_107A	Drug Free Workplace US Employees	Yes	EHS Mgr, Qualified Trainer, or eLearning	Branch or Fr Intranet Conn	Initial
HS_107E	US Driver Supervisors	Yes	EHS Mgr, SK Certified Instructor, or eLearning	Branch or Fr Intranet Conn	Initial
HS_151	Accident Investigation	Yes	EHS Mgr, SK Certified Instructor, or eLearning with additional Instruction by EHS Mgr	Branch	Initial
MB_XXXXXX	Operating and Marketing BOG Training (see BOG Training Checklist)	Yes	SK eLearning and OJT	Fr Intranet and Branch	Initial
OB_XXXXXX	Operating and Marketing BOG Training (see BOG Training Checklist)	Yes	SK eLearning and OJT	Fr Intranet and Branch	Initial

CSM - Training Checklist - Regulatory - US.XIS
 Job Code: CSM / Job Title: Customer Service Manager

Course Code	Description	Req'd	Delivered By	Where	When
ET_100_1	EMS / ISO Overview	Yes	SK eLearning	Fr Intranet Conn.	Annual
ET_100C	EMS for Customer Service Representatives	Yes	SK eLearning	Fr Intranet Conn	Initial
ET_131	USDOT Regulations: HazMat Regulations (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_132	USDOT Regulations: Hazard Classes (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_140	RCRA Update (permitted locations only)	Yes	Qualified Trainer or EHS Mgr	Branch	Initial / Annual
ET_141	RCRA (Training should be accomplished by attending BTT or ABTT at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_180	Entry Level Driver Training	See Note 6	RTC Trainer or Qualified Trainer	RTC or Branch	Initial
ET_172	Pre and Post Trip Inspections	See Note 6	RTC Trainer, Qualified Trainer, or by completing BOG OB_420006	RTC or Branch	Initial
ET_176	Driver Safety Training / Defensive Driving	Yes	Qualified Trainer, or by completing BOG OB_420-005	Branch	Initial/ Triennial
ET_177A	Haz Materials Security Plan for Employees	Yes	RTC Trainer or SK eLearning	RTC or Fr Intranet Conn	Every three years
ET_231	USDOT Regulations: Hazardous Materials Table (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_232	USDOT Regulations: Shipping Papers (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_233	USDOT/EPA Regulations: Labeling and Marking (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_234	USDOT Regulations: Placarding (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_235	Hazardous Materials: Segregation (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_236	USDOT Regulations: UN Packaging Authorizations and Specifications (POPS) (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_237	Drum Inspection and Closure (Initial training is included in HS_101RTC, 24 Hr Hazwoper at the RTC)	Yes	Initial: RTC Trainer or SK eLearning / Triennial: Qualified Trainer, EHS Mgr, Transp Compliance Mgr, or SK eLearning	Initial: RTC or Branch / Triennial: Branch or Fr Intranet Conn.	Initial / Triennial
ET_255	ABTT / Advanced Branch Technical Training	Rec'd	RTC Trainer or SK Certified Instructor	RTC	Initial
ET_330	Shipping Hazardous Materials Samples (Initial training should be accomplished by attending BTT or ABTT at the RTC)	Yes	Initial: RTC Trainer / Triennial: Qualified Trainer, EHS Mgr, Transp Compliance Mgr, or SK eLearning	Initial: RTC / Triennial: Branch or Fr Intranet Conn	Initial / Triennial
ET_HMTS	Hazardous Materials Transportation Skills (Initial)	Yes	RTC Trainer	RTC	Initial
ET_HMTS_RE	Hazardous Materials Transportation Skills Refresher (Triennial)	Yes	EHS Mgr, Transp Compliance Mgr, SK Certified Instructor, or SK eLearning	Branch or Fr Intranet Conn	Triennial
HS_101 / HS_101RTC*	24 Hour Hazwoper / 24 Hour Hazwoper at the RTC	Yes	RTC Trainer	RTC	Initial
HS_104	8 Hour HAZWOPER Refresher	Yes	EHS Mgr or SK Certified Instructor	Branch	Annual
HS_107A	Drug Free Workplace US Employees	Yes	EHS Mgr, Qualified Trainer, or eLearning	Branch or Fr Intranet Conn	Initial
HS_107E	US Driver Supervisors	Yes	EHS Mgr, SK Certified Instructor, or eLearning	Branch or Fr Intranet Conn	Initial
MB_XXXXXX	Operating and Marketing BOG training (see BOG Training Checklist)	Yes	SK eLearning and OJT	Fr Intranet and Branch	Initial
OB_XXXXXX	Operating and Marketing BOG training (see BOG Training Checklist)	Yes	SK eLearning and OJT	Fr Intranet and Branch	Initial

SSSR-SSR-SSA - Training Checklist - Regulatory - US.xls

Job Code: SSSR (SCSR) / Job Title: Sr Sales Svc Rep (Sr Customer Svc Rep)
 Job Code: SSR (CSR) / Job Title: Sales Svc Rep
 Job Code: SSA (CSA) / Job Title: Sales Svc Associate

Course Code	Description	Req'd	Delivered By	Where	When
ET_100_1	EMS / ISO Overview	Yes	SK eLearning	Ft Intranet Conn.	Annual
ET_100C	EMS for Customer Service Representatives	Yes	SK eLearning	Ft Intranet Conn	Initial
ET_131	USDOT Regulations. Hazmat Regulations (Included in HMITS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_132	USDOT Regulations. Hazard Classes (included in HMITS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_140	RCRA Update (permitted locations only)	Yes	Qualified Trainer or EHS Mgr	Branch	Initial / Annual
ET_160	Entry Level Driver Training	Yes	RTC Trainer or Qualified Trainer	RTC or Branch	Initial
ET_172	Pre and Post Trip Inspections	Yes	RTC Trainer, Qualified Trainer, or by completing BOG OB_420006	RTC or Branch	Initial
ET_176	Driver Safety Training / Defensive Driving	Yes	Qualified Trainer, or by completing BOG OB_420-005	Branch	Initial / Triennial
ET_177A	Haz Materials Security Plan for Employees	Yes	RTC Trainer or SK eLearning	RTC or Ft Intranet Conn	Every three years
ET_181	Driver's Exempl Log	Yes	RTC Trainer or Qualified Trainer	RTC or Branch	Initial
ET_231	USDOT Regulations. Hazardous Materials Table (included in HMITS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_232	USDOT Regulations: Shipping Papers (included in HMITS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_233	USDOT/EPA Regulations: Labeling and Marking (included in HMITS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_234	USDOT Regulations: Placarding (included in HMITS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_235	Hazardous Materials: Segregation (included in HMITS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_236	USDOT Regulations: UN Packaging Authorizations and Specifications (PUPS) (included in HMITS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_237	Drum Inspection and Closure (Initial training is included in HS_101RTC, 24 Hr Hazwoper at the RTC)	Yes	Initial, RTC Trainer or SK eLearning / Triennial; Qualified Trainer, EHS Mgr, Transp Compliance Mgr, or SK eLearning	Initial: RTC or Branch or Ft Intranet Conn	Initial / Triennial
ET_120	Load Securement	Yes	RTC Trainer or Qualified Trainer	RTC or Branch	Initial
ET_180	Driver's Daily Log/Hours of Service	See Note 1	RTC Trainer or Qualified Trainer	RTC or Branch	Initial / Triennial
ET_HMITS	Hazardous Materials Transportation Skills (Initial)	Yes	RTC Trainer	RTC	Initial
ET_HMITS_RE	Hazardous Materials Transportation Skills Refresher (Triennial)	Yes	EHS Mgr, Transp Compliance Mgr, SK Certified Instructor, or SK eLearning	Branch or Ft Intranet Conn	Triennial
HS_101 / HS_101RTC*	24 Hour Hazwoper / 24 Hour Hazwoper at the RTC	Yes	RTC Trainer	RTC	Initial
HS_104	8 Hour HAZWOPER Refresher	Yes	EHS Mgr or SK Certified Instructor	Branch	Annual
HS_107A	Drug Free Workplace US Employees	Yes	EHS Mgr, Qualified Trainer, or eLearning	Branch or Ft Intranet Conn	Initial
HS_201	Forklift Operation	Forklift Operator Only	Qualified Trainer, H&S Mgr, or eLearning	Branch or Ft Intranet Conn	Initial
HS_201A	Forklift Operator Evaluation	Forklift Operator Only	Qualified Trainer, H&S Mgr, or eLearning	Branch	Triennial
MB_XXXXXX	Operating and Marketing BOG Training (see BOG Training Checklist)	Yes	SK eLearning and OJT	Ft Intranet and Branch	Initial
OB_XXXXXX	Operating and Marketing BOG training (see BOG Training Checklist)	Yes	SK eLearning and OJT	Ft Intranet and Branch	Initial

MSS - Training Checklist - Regulatory - US.xls
 Job Code: MSS / Job Title: Market Sales Specialist (all levels)

Course Code	Description	Req'd	Delivered By	Where	When
ET_100_1	EMS / ISO Overview	Yes	SK eLearning	Fr Intranet Conn	Annual
ET_100E	EMS for Branch Management	Yes	SK eLearning	Fr Intranet Conn.	Initial
ET_131	USDOT Regulations. HazMat Regulations (Included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_132	USDOT Regulations: Hazard Classes (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_140	RCRA Update (permitted locations only)	Yes	Qualified Trainer or EHS Mgr	Branch	Initial / Annual
ET_141	RCRA (Training should be accomplished by attending BTT or ABTT at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_143	Sampling (Training should be accomplished by attending BTT or ABTT at the RTC)	Yes	RTC Trainer or Qualified Trainer	RTC	Initial
ET_144A	Completing the One-Page Profile (Training should be accomplished by attending BTT or ABTT at the RTC)	Yes	RTC Trainer or Qualified Trainer	RTC	Initial
ET_176	Driver Safety Training / Defensive Driving	Yes	Qualified Trainer, or by completing BOG OB_420-005	Branch	Initial / Triennial
ET_177A	Haz Materials Security Plan for Employees	Yes	RTC Trainer or SK eLearning	RTC or Fr Intranet Conn	Every three years
ET_231	USDOT Regulations: Hazardous Materials Table (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_232	USDOT Regulations: Shipping Papers (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_233	USDOT/EPA Regulations: Labeling and Marking (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_234	USDOT Regulations: Placarding (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_235	Hazardous Materials: Segregation (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_236	USDOT Regulations: UN Packaging Authorizations and Specifications (POPS) (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_237	Drum Inspection and Closure (Initial training is included in HS_101RTC, 24 Hr Hazwoper at the RTC)	Yes	Initial RTC Trainer or SK eLearning / Triennial: Qualified Trainer, Qualified Trainer, EHS Mgr, Transp Compliance Mgr, or SK eLearning	Initial, RTC or Branch / Triennial: Branch or Fr Intranet Conn.	Initial / Triennial
ET_255	ABTT / Advanced Branch Technical Training	Yes	RTC Trainer or SK Certified Instructor	RTC	Initial
ET_330	Shipping Hazardous Materials Samples (Initial training should be accomplished by attending BTT or ABTT at the RTC)	Yes	Initial RTC Trainer / Triennial: Qualified Trainer, EHS Mgr, Transp Compliance Mgr, or SK eLearning	Initial, RTC / Triennial: Branch or Fr Intranet Conn	Initial / Triennial
ET_HMTS	Hazardous Materials Transportation Skills (Initial)	Yes	RTC Trainer	RTC	Initial
ET_HMTS_RE	Hazardous Materials Transportation Skills Refresher (Triennial)	Yes	EHS Mgr, Transp Compliance Mgr, SK Certified Instructor, or SK eLearning	Branch or Fr Intranet Conn	Triennial
HS_101 / HS_101RTC*	24 Hour Hazwoper / 24 Hour Hazwoper at the RTC	Yes	RTC Trainer	RTC	Initial
HS_104	8 Hour HAZWOPER Refresher	Yes	EHS Mgr or SK Certified Instructor	Branch	Annual
HS_107A	Drug Free Workplace US Employees	Yes	EHS Mgr, Qualified Trainer, or eLearning	Branch or Fr Intranet Conn	Initial
MB_XXXXXX	Operating and Marketing BOG Training (see BOG Training Checklist)	Yes	SK eLearning and OJT	Fr Intranet and Branch	Initial
OB_XXXXXX	Operating and Marketing BOG Training (see BOG Training Checklist)	Yes	SK eLearning and OJT	Fr Intranet and Branch	Initial

Course Code	Description	Req'd	Delivered By	Where	When
ET_100_1	EMS / ISO Overview	Yes	SK eLearning	Fr Intranet Conn.	Annual
ET_100A	EMS for Branch Administration	Yes	SK eLearning	Fr Intranet Conn.	Initial
ET_140	RCRA Update (permitted locations only)	Yes	Qualified Trainer or EHS Mgr	Branch	Initial / Annual
ET_177A	Haz Materials Security Plan for Employees	Yes	Qualified Trainer or SK eLearning	Branch or Fr Intranet Conn	Every three years
ET_330	Shipping Hazardous Materials Samples	See Note 4	Initial: RTC Trainer / Triennial: Qualified Trainer, EHS Mgr, Transp Compliance Mgr, or SK eLearning	Initial: RTC / Triennial: Branch or Fr Intranet Conn	Annual
ET_HMTS AD	Hazardous Materials Transportation Skills for Admin (NOTE: ET_HMTS_RE on eLearning can be completed to fulfill the ET_HMTS_ADMIN requirement)	See Note 5	EHS Mgr, Transp Compliance Mgr, SK Certified Instructor, or eLearning	Branch or Fr Intranet Conn	Initial / Triennial
HS_106	Health and Safety for Admin	Yes	Qualified Trainer, EHS Mgr, or eLearning	Branch or Fr Intranet Conn	Initial
HS_107A	Drug Free Workplace US Employees	Yes	EHS Mgr, Qualified Trainer, or eLearning	Branch or Fr Intranet Conn	Initial
MB_XXXXXX	Operating and Marketing BOG Training (see BOG Training Checklist)	Yes	SK eLearning and OJT	Fr Intranet and Branch	Initial
OB_XXXXXX	Operating and Marketing BOG Training (see BOG Training Checklist)	Yes	SK eLearning and OJT	Fr Intranet and Branch	Initial

LMH-MH-MHST - Training Checklist - Regulatory - US.xls

Job Code: LMH / Job Title: Lead Material Handler

Job Code: MH / Job Title: Material Handler

Job Code: MHST / Job Title: Material Handler Service Trainee

Course Code	Description	Req'd	Delivered By	Where	When
ET_100_1	EMS /ISO Overview	Yes	SK eLearning	Fr Intranet Conn	Annual
ET_100B	EMS for Material Handler	Yes	SK eLearning	Fr Intranet Conn	Initial
ET_131	USDOT Regulations: HazMat Regulations (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_132	USDOT Regulations: Hazard Classes (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_140	RCRA Update (permitted locations only)	Yes	Qualified Trainer or EHS Mgr	Branch	Initial / Annual
ET_160	Entry Level Driver Training	See Note 6	RTC Trainer or Qualified Trainer	RTC or Branch	Initial
ET_172	Pre and Post Trip Inspections	See Note 6	RTC Trainer, Qualified Trainer, or by completing BOG OB_420006	RTC or Branch	Initial
ET_176	Driver Safety Training / Defensive Driving	See Note 6	Qualified Trainer, or by completing BOG OB_420-005	Branch	Initial / Triennial
ET_177A	Haz Materials Security Plan for Employees	Yes	RTC Trainer or SK eLearning	RTC or Fr Intranet Conn	Every three years
ET_231	USDOT Regulations: Hazardous Materials Table (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_232	USDOT Regulations: Shipping Papers (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_233	USDOT/EPA Regulations: Labeling and Marking (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_234	USDOT Regulations: Placarding (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_235	Hazardous Materials: Segregation (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_236	USDOT Regulations: UN Packaging Authorizations and Specifications (POPS) (included in HMTS at the RTC)	Yes	RTC Trainer	RTC	Initial
ET_237	Drum Inspection and Closure (Initial training is included in HS_101RTC, 24 Hr Hazwoper at the RTC)	Yes	Initial RTC Trainer or SK eLearning / Triennial Qualified Trainer, EHS Mgr, Transp Compliance Mgr, or SK eLearning	Initial RTC or Branch / Triennial, Branch or Fr Intranet Conn.	Initial / Triennial
ET_HMTS	Hazardous Materials Transportation Skills (Initial)	Yes	RTC Trainer	RTC	Initial
ET_HMTS_RE	Hazardous Materials Transportation Skills Refresher (Triennial)	Yes	EHS Mgr, Transp Compliance Mgr, SK Certified Instructor, or SK eLearning	Branch or Fr Intranet Conn	Triennial
HS_101 / HS_101RTC*	24 Hour Hazwoper / 24 Hour Hazwoper at the RTC	Yes	RTC Trainer	RTC	Initial
HS_104	8 Hour HAZWOPER Refresher	Yes	EHS Mgr or SK Certified Instructor	Branch	Annual
HS_107A	Drug Free Workplace US Employees	Yes	EHS Mgr, Qualified Trainer, or eLearning	Branch or Fr Intranet Conn	Initial
ET_176	Driver Safety Training / Defensive Driving	See Note 6a	Qualified Trainer, or by completing BOG OB_420-005	Branch	Initial / Triennial
HS_201	Forklift Operation	Forklift Operator Only	Qualified Trainer, H&S Mgr, or eLearning	Branch or Fr Intranet Conn	Initial
HS_201 - Supplemental Training	Forklift Operation - Additional forklift specific supplemental training is required for each forklift (use the Supplemental document found in the SK Corp Training Dept database for instruction and documentation)	Forklift Operator Only	Qualified Trainer, H&S Mgr	Branch	Initial
HS_201A	Forklift Operator Evaluation	Forklift Operator Only	Qualified Trainer, H&S Mgr, or eLearning	Branch	Triennial
MB_XXXXXX	Operating and Marketing BOG training (see BOG Training Checklist)	Yes	SK eLearning and OJT	Fr Intranet and Branch	Initial
OB_XXXXXX	Operating and Marketing BOG training (see BOG Training Checklist)	Yes	SK eLearning and OJT	Fr Intranet and Branch	Initial

APPENDIX H
FINANCIAL REQUIREMENTS

APPENDIX H

Exhibits

- H-1 CLOSURE COST ESTIMATE
- H-2 FINANCIAL ASSURANCE DOCUMENTATION
- H-3 CERTIFICATE OF LIABILITY INSURANCE

EXHIBIT H-1

CLOSURE COST ESTIMATE

Table 1 Closure Cost Estimate Worksheet Safety-Kleen Branch Service Center, (Las Vegas, NV)

Activity	Category	Hourly Rate or Unit Charge	Hours or Unit Estimate	Subtotal Cost																									
4 DECONTAMINATE CONTAINER STORAGE AREA(S)																													
<u>Assumptions</u>																													
<ul style="list-style-type: none"> - Decontamination shall consist of washing with a detergent water solution and rinsing with a high-pressure spray - CSA(s) to remain in-place following closure - Decontamination of CSA includes floor, curbing and containment trenches - Assumes 1 rinse and 2 soil samples required per CSA. Actual number of soil samples will be based on engineer's inspection - CSA Containment Square Footage <table border="0" style="margin-left: 20px;"> <tr> <td>- CSA 1</td> <td style="text-align: right;">Square Footage</td> </tr> <tr> <td>- CSA 2 (IF APPLICABLE)</td> <td style="text-align: right;">3,599</td> </tr> <tr> <td style="text-align: right;">Total CSA Square Footage</td> <td style="text-align: right;">0</td> </tr> <tr> <td></td> <td style="text-align: right;">3,599</td> </tr> </table> 					- CSA 1	Square Footage	- CSA 2 (IF APPLICABLE)	3,599	Total CSA Square Footage	0		3,599																	
- CSA 1	Square Footage																												
- CSA 2 (IF APPLICABLE)	3,599																												
Total CSA Square Footage	0																												
	3,599																												
<u>Prime Contractor Costs</u>																													
- Costs for oversight and engineer's inspection included in Closure Certification Activity below																													
<ul style="list-style-type: none"> - Collect Rinseate Samples (1 per CSA) <table border="0" style="margin-left: 20px;"> <tr> <td>Work Rate for Sampling (hours per sample)</td> <td style="text-align: right;">0.5000</td> </tr> <tr> <td>Number of Samples</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Labor and equipment per work hour (PPE Level C)</td> <td style="text-align: right;">\$91.88</td> </tr> </table> - Drilling for Soil Samples (2.5 in coming to 1 ft each) <table border="0" style="margin-left: 20px;"> <tr> <td>Work Rate for Drilling (hours per foot)</td> <td style="text-align: right;">0.3050</td> </tr> <tr> <td>Number of Feet (subslab sample depth = 1 foot each x number of samples)</td> <td style="text-align: right;">2</td> </tr> <tr> <td>Labor and equipment per work hour (PPE Level C)</td> <td style="text-align: right;">\$146.29</td> </tr> </table> - Collect Soil Samples <table border="0" style="margin-left: 20px;"> <tr> <td>Work Rate for Sampling (hours per sample)</td> <td style="text-align: right;">0.5000</td> </tr> <tr> <td>Number of Samples</td> <td style="text-align: right;">2</td> </tr> <tr> <td>Labor and equipment per work hour (PPE Level C)</td> <td style="text-align: right;">\$91.88</td> </tr> </table> 	Work Rate for Sampling (hours per sample)	0.5000	Number of Samples	1	Labor and equipment per work hour (PPE Level C)	\$91.88	Work Rate for Drilling (hours per foot)	0.3050	Number of Feet (subslab sample depth = 1 foot each x number of samples)	2	Labor and equipment per work hour (PPE Level C)	\$146.29	Work Rate for Sampling (hours per sample)	0.5000	Number of Samples	2	Labor and equipment per work hour (PPE Level C)	\$91.88											
Work Rate for Sampling (hours per sample)	0.5000																												
Number of Samples	1																												
Labor and equipment per work hour (PPE Level C)	\$91.88																												
Work Rate for Drilling (hours per foot)	0.3050																												
Number of Feet (subslab sample depth = 1 foot each x number of samples)	2																												
Labor and equipment per work hour (PPE Level C)	\$146.29																												
Work Rate for Sampling (hours per sample)	0.5000																												
Number of Samples	2																												
Labor and equipment per work hour (PPE Level C)	\$91.88																												
<u>Subcontractor Costs</u>																													
- Decontaminate CSA(s) <table border="0" style="margin-left: 20px;"> <tr> <td>Work Rate to Pressure Wash (hours per square foot)</td> <td style="text-align: right;">0.0405</td> </tr> <tr> <td>Total Area of Permitted CSA(s) to be decontaminated</td> <td style="text-align: right;">3,599</td> </tr> <tr> <td>Labor and equipment for CSA decon (PPE Level D)</td> <td style="text-align: right;">\$65.71</td> </tr> </table>					Work Rate to Pressure Wash (hours per square foot)	0.0405	Total Area of Permitted CSA(s) to be decontaminated	3,599	Labor and equipment for CSA decon (PPE Level D)	\$65.71																			
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<u>Laboratory Subcontractor Costs</u>																													
- Analyze rinseate sample(s) from each CSA for VOCs, SVOCs and RCRA metals <table border="0" style="margin-left: 20px;"> <tr> <td>VOCs @ \$189/sample</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SVOCs @ \$359/sample</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8 RCRA Metals @ \$110/sample</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total per sample cost</td> <td style="text-align: right;">\$658</td> <td style="text-align: right;">1</td> <td></td> <td style="text-align: right;">\$658</td> </tr> </table>					VOCs @ \$189/sample					SVOCs @ \$359/sample					8 RCRA Metals @ \$110/sample					Total per sample cost	\$658	1		\$658					
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- Analyze 2 soil sample(s) from each CSA for VOCs, SVOCs and RCRA metals <table border="0" style="margin-left: 20px;"> <tr> <td>VOCs @ \$189/sample</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SVOCs @ \$359/sample</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8 RCRA Metals @ \$110/sample</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total per sample cost</td> <td style="text-align: right;">\$658</td> <td style="text-align: right;">2</td> <td></td> <td style="text-align: right;">\$1,316</td> </tr> </table>					VOCs @ \$189/sample					SVOCs @ \$359/sample					8 RCRA Metals @ \$110/sample					Total per sample cost	\$658	2		\$1,316					
VOCs @ \$189/sample																													
SVOCs @ \$359/sample																													
8 RCRA Metals @ \$110/sample																													
Total per sample cost	\$658	2		\$1,316																									
Activity 4 Subtotal				\$11,788																									
5 CONTAINERIZE, STAGE, TRANSPORT AND DISPOSE OF DECONTAMINATION WASTES																													
<u>Assumptions</u>																													
- Amount of decon wash water generated derived from previous closure experience. Quantity based on approximately 0.8 gal/sq ft for tank systems and 0.1 gal/sq ft for containment area floors																													
Unit Description	Square Footage	Number (drums)	Number Drums																										
STORAGE TANK DECONTAMINATION	797	675	12																										
DECONTAMINATE TANK CONTAINMENT	1,369	116	3																										
DECONTAMINATE THE RETURN/FILL STATION	1,030	800	15																										
DECONTAMINATE CONTAINER STORAGE AREA(S)	3,599	360	7																										
PPE CONSUMABLES, DEBRIS	NA	NA	5																										
- Purchase 55-gallon drums to containerize wash water <table border="0" style="margin-left: 20px;"> <tr> <td>Drums @ \$83 each</td> <td style="text-align: right;">\$83</td> <td style="text-align: right;">42</td> <td></td> <td style="text-align: right;">\$3,835</td> </tr> </table>					Drums @ \$83 each	\$83	42		\$3,835																				
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<u>Subcontractor Costs</u>																													
- Transfer drums to trucks <table border="0" style="margin-left: 20px;"> <tr> <td>Labor/Equipment (PPE Level D)</td> <td style="text-align: right;">\$3.57</td> <td style="text-align: right;">42</td> <td></td> <td style="text-align: right;">\$150</td> </tr> </table>					Labor/Equipment (PPE Level D)	\$3.57	42		\$150																				
Labor/Equipment (PPE Level D)	\$3.57	42		\$150																									
- Transport drums to TSD for Treatment/Disposal <table border="0" style="margin-left: 20px;"> <tr> <td>Total Number of Trucks Required to Transport Drums (84 per truck max)</td> <td></td> <td style="text-align: right;">1</td> <td></td> <td></td> </tr> <tr> <td>Cost per mile = \$5.64/mile</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mileage = 300 miles (Number in second column is 300 miles x number trucks)</td> <td style="text-align: right;">Transport Rate @ \$5 x 300 miles</td> <td style="text-align: right;">\$5.64</td> <td style="text-align: right;">300</td> <td style="text-align: right;">\$1,692</td> </tr> <tr> <td>Disposal/treatment cost (per drum - low cost based on lack of hazardous constituents)</td> <td style="text-align: right;">TSD @ \$90/drum</td> <td></td> <td style="text-align: right;">37</td> <td style="text-align: right;">\$3,330</td> </tr> <tr> <td>Disposal/treatment cost for PPE drums (assumed haz to landfill)</td> <td style="text-align: right;">TSD @ \$250/drum</td> <td></td> <td style="text-align: right;">5</td> <td style="text-align: right;">\$1,250</td> </tr> </table>					Total Number of Trucks Required to Transport Drums (84 per truck max)		1			Cost per mile = \$5.64/mile					Mileage = 300 miles (Number in second column is 300 miles x number trucks)	Transport Rate @ \$5 x 300 miles	\$5.64	300	\$1,692	Disposal/treatment cost (per drum - low cost based on lack of hazardous constituents)	TSD @ \$90/drum		37	\$3,330	Disposal/treatment cost for PPE drums (assumed haz to landfill)	TSD @ \$250/drum		5	\$1,250
Total Number of Trucks Required to Transport Drums (84 per truck max)		1																											
Cost per mile = \$5.64/mile																													
Mileage = 300 miles (Number in second column is 300 miles x number trucks)	Transport Rate @ \$5 x 300 miles	\$5.64	300	\$1,692																									
Disposal/treatment cost (per drum - low cost based on lack of hazardous constituents)	TSD @ \$90/drum		37	\$3,330																									
Disposal/treatment cost for PPE drums (assumed haz to landfill)	TSD @ \$250/drum		5	\$1,250																									
Activity 5 Subtotal				\$10,257																									
6 CLOSURE CERTIFICATION																													
<u>Assumptions</u>																													
<ul style="list-style-type: none"> - Cost Pro unit rate per unit to be closed is \$4,118 - Unit rate includes engineer inspection and decontamination oversight of each unit 																													
<u>Prime Contractor Costs</u>																													
- Oversee and certify closure per unit times number of units <table border="0" style="margin-left: 20px;"> <tr> <td>Project Manager/Engineer</td> <td style="text-align: right;">\$4,118</td> <td style="text-align: right;">3</td> <td></td> <td style="text-align: right;">\$12,354</td> </tr> </table>					Project Manager/Engineer	\$4,118	3		\$12,354																				
Project Manager/Engineer	\$4,118	3		\$12,354																									
Activity 6 Subtotal				\$12,354																									
COST ESTIMATE ACTIVITIES SUMMARY																													
1	INVENTORY REMOVAL			\$316,492																									
2	STORAGE TANK DECONTAMINATION			\$9,069																									
3	DECONTAMINATE THE RETURN/FILL STATION			\$7,547																									
4	DECONTAMINATE CONTAINER STORAGE AREA(S)			\$11,788																									
5	CONTAINERIZE, STAGE, TRANSPORT AND DISPOSE OF DECONTAMINATION WASTES			\$10,257																									
6	CLOSURE CERTIFICATION			\$12,354																									
TOTAL CLOSURE COST ESTIMATE				\$367,506																									
CONTINGENCY				15%																									
TOTAL CLOSURE COST WITH CONTINGENCY				\$435,086																									

Notes

- All unit rates obtained from Cost Pro version 6.0 and includes the following
 - Transportation @ \$5.64/mile and 300 mile trip
 - Disposal for bulk liquids \$0.45/gallon based on suitability of waste mineral spirits as fuel
 - Disposal for CSA liquids \$90/drum based on suitability of drummed waste streams as fuel
 - Disposal of decon wash water \$90/drum based on lack of hazardous constituents in waste (soapy water)
 - Subcontractor Decontamination Rate for tanks and return/fill based on PPE Level C
 - Subcontractor decontamination rates for tank containment, CSAs and Flam Shed (if applicable) based on PPE Level D
 - Prime Contractor Rates based on hourly rate for rinseate sampling, drilling and soil sample collection
 - Lab subcontractor rates for analysis of rinseate and soil samples (Assumes VOCs, SVOCs and metals)

Table 1 Closure Cost Estimate Worksheet, Safety-Kleen Branch Service Center (Las Vegas, NV)

Activity	Category	Hourly Rate or Unit Charge	Hours or JRH Estimate	Subtotal Cost
Closure Certification Activity includes contractor oversight, PE integrity inspections and reporting Certification				

Table 1 Closure Cost Estimate Worksheet Safety-Kleen Branch Service Center, (Las Vegas, NV)

Activity	Category	Hourly Rate or Unit Charge	Hours or Unit Estimate	Subtotal Cost
INVENTORY REMOVAL				
<u>Assumptions</u>				
- Waste mineral spirits tank(s) is full			Capacity (gallons)	
- Tank One			12000	
- Tank Two (IF APPLICABLE)			0	
	Total Tank Capacity		12000	
- Return Fill station is full				
- Maximum capacity of drum washers added to waste mineral spirits tank quantity			750	
- Container storage area(s) full				
- CSA 1			14730	
- CSA 2 (IF APPLICABLE)			0	
	Total CSA Capacity		14730	
<u>Subcontractor Costs</u>				
Transfer tank contents to tankers				
Tank Capacity (total gallons)			12750	
Work Rate to Unload Tank Capacity (hours per gallon)			0.0003	
Total Hours to Unload			3.8	
Labor and equipment rate to unload (PPE Level D) and cost	Labor/equipment	\$175.95	3.8	\$673
Transport waste mineral spirits to a TSD for treatment/disposal				
Number of tanker trailers required (6,000 gallons max. each load)			1	
Cost per mile = \$5.64/mile				
Mileage = 300 miles (Number in second column is 300 miles x number trucks)	Transport = 300 miles each	\$5.64	900	\$5,076
Disposal/treatment cost (per gallon - low cost based on suitability for fuel)	TSD @ \$0.45/gallon	\$0.450	12750	\$5,738
Transfer drums from CSA(s) to trucks				
Labor/Equipment (PPE Level D)	Labor/equipment per drum	\$3.57	2681	\$9,571
(Number in second column is number of drums determined from total CSA capacity)				
Transport drums to TSD for Treatment/Disposal				
Total Number of Drums (Number is total of CSA drums)			2681	
Total Number of Trucks Required to Transport Drums (84 per truck max)			32	
Cost per mile = \$5.64/mile				
Mileage = 300 miles (Number in second column is 300 miles x number of trucks)	Transport trailer(s) = 300 miles	\$5.64	9800	\$54,144
Disposal/treatment cost (per drum - low cost based on suitability for fuel)	TSD @ \$90/drum	\$90	2681	\$241,290
Activity 1 Subtotal				\$316,492

Table 1 Closure Cost Estimate Worksheet Safety-Clean Branch Service Center (Las Vegas, NV)

Activity	Category	Hourly Rate or Unit Charge	Hours or Unit Estimate	Subtotal Cost
2 STORAGE TANK DECONTAMINATION				
<u>Assumptions:</u>				
- The tanks, piping and appurtenant equipment are decontaminated and remain in place				
- Rinsate sampling necessary because the tank will remain in place. Assumes 1 rinsate sample per tank				
- Includes decontamination of the containment area				
- Assumes containment area to remain in place following decontamination				
- Assumes 1 rinsate sample required to leave containment in place				
- Assumes 2 soil samples required from beneath containment area. Actual number of samples will be based on engineer's inspection				
- Tank Interior Square Footage (based on tank volume)				
- Tank 1			Square Footage	
- Tank 2 (IF APPLICABLE)			781	
			$\frac{0}{781}$	
	Total Tank Interior Square Footage			
- Tank Farm Containment Square Footage (includes floor and walls)			1169	
<u>Prime Contractor Costs</u>				
Costs for oversight and engineers inspection included in Closure Certification Activity 01000				
Collect Rinsate Sample(s) (1 per tank and 1 per containment)			0.0000	
Work Rate for Sampling (hours per sample)			2	
Number of Samples				
Labor and equipment per work hour (PPE Level D)	Labor/Equipment	\$81.88	1.00	\$82
Drilling for Soil Samples (2.5 in boring to 1 ft each)			0.3050	
Work Rate for Drilling (hours per foot)			2	
Number of Feet (subslab sample depth = 1 foot each)				
Labor and equipment per work hour (PPE Level D)	Labor/Equipment	\$148.28	0.61	\$80
Collect 2 Soil Samples			0.5000	
Work Rate for Sampling (hours per sample)			2	
Number of Samples				
Labor and equipment per work hour (PPE Level D)	Labor/Equipment	\$91.88	1.00	\$91
<u>Subcontractor Costs</u>				
Decontaminate waste AST, piping and appurtenant equipment			0.0405	
Work Rate to Pressure Wash (hours per square foot)			781	
Area of Tanks to be decontaminated				
Labor and equipment for tank decon (PPE Level C)	Labor/Equipment	\$97.23	3.7	\$3,074
Decontaminate Tank Containment Area			0.0405	
Work Rate to Pressure Wash 1 sq ft (hours per square foot)			1169	
Total Area of Containment (includes walls and floor)				
Labor and equipment for CSA decon (PPE Level D)	Labor/Equipment	\$65.77	47	\$3,080
<u>Laboratory Subcontractor Costs</u>				
Analyze rinsate sample(s) from tank(s) and containment area for VOCs, SVOCs and RCRA metals	VOCs @ \$189/sample SVOCs @ \$359/sample 8 RCRA Metals @ \$110/sample Total per sample cost	\$658	2	\$1,316
Analyze soil sample(s) from containment area for VOCs, SVOCs and RCRA metals	VOCs @ \$189/sample SVOCs @ \$359/sample 8 RCRA Metals @ \$110/sample Total per sample cost	\$658	2	\$1,316
Activity 2, Subtotal				\$9,069

Table 1 Closure Cost Estimate Worksheet Safety-Kleen Branch Service Center (Las Vegas, NV)

Activity	Category	Hourly Rate per Unit Charge	Hours or Unit Estimate	Subtotal Cost
3 DECONTAMINATE THE RETURN/FILL STATION				
<u>Assumptions</u>				
<ul style="list-style-type: none"> - Decontamination shall consist of washing with detergent/water solution and rinsing with high-pressure spray - Return/Fill structure and dock area will remain in place following decontamination - Drum washers to remain in place or sent offsite for reuse following decontamination - Rinsate sampling required from each drum washer to remain in place or sent offsite for reuse, and from containment - Assumes 2 soil samples required from beneath containment area. Actual number of samples will be based on engineer's inspection - Square footage used for decontamination includes containment, dock and drum washer units 				
				Square Footage 1000
<u>Prime Contractor Costs</u>				
Costs for oversight and engineers inspection included in Closure Certification Activity below				
- Collect Rinsate Samples (1 per drum washer plus containment)			0.5000	
Work Rate for Sampling (1 hours per sample)			3	
Number of Samples				
Labor and equipment per work hour (PPE Level D)	Labor/equipment	\$91.88	1.50	\$138
- Drilling for Soil Samples (2.5 in boring to 1 ft depth)			0.3083	
Work Rate for Drilling (hours per foot)			2	
Number of Feet (substant sample depth = 1 foot each)			6.51	
Labor and equipment per work hour (PPE Level D)	Labor/equipment	\$146.29		\$69
- Collect Soil Samples			0.5000	
Work Rate for Sampling (per sample)			2	
Number of Samples				
Labor and equipment per work hour (PPE Level D)	Labor/equipment	\$91.88	1.00	\$92
<u>Subcontractor Costs</u>				
- Decontaminate waste AST, piping and appurtenant equipment			0.0405	
Work Rate to Pressure Wash (hours per square foot)			1000	
Area of Return/Fill to be decontaminated				
Labor and equipment for tank decon (PPE Level C)	Labor/equipment	\$87.23	41	\$3,938
<u>Laboratory Subcontractor Costs</u>				
Analyze 1 rinsate sample per drum washer and containment for VOCs, SVOCs and RCRA metals	VOCs @ \$189/sample SVOCs @ \$359/sample 8 RCRA Metals @ \$110/sample Total per sample cost	\$658	1	\$1,974
Analyze soil sample(s) from containment area for VOCs, SVOCs and RCRA metals	VOCs @ \$189/sample SVOCs @ \$359/sample 8 RCRA Metals @ \$110/sample Total per sample cost	\$658	2	\$1,316
Activity 3 Subtotal				\$7,547

Safety-Kleen Las Vegas
NVR000066837

Address: 4582 Donovan Way
North Las Vegas
NEVADA
89031

Comments: Updated Cclosure Cost Estimate for permit renewal

Activity	Units	Closure Cost
Container Storage Area	1	\$408,149.72
Tank Systems	2	\$26,937.92

\$435,087.64

Additional Costs \$0.00

Total Estimated Cost **\$435,087.64**

Container Storage Areas Summary (CS_02-1)

Removal of Waste (CS-03)	\$9,662.17	
Demolition and Removal of Pads (CS-04)	\$0.00	
Removal of Process Equipment (CS-05)	\$0.00	
Removal of Soil (CS-06)	\$0.00	
Backfill and Grading (BF-01)	\$0.00	
Decontamination (DC-01)	\$10,763.17	
Sampling and Analysis (SA-02)	\$469.54	
Monitoring Well Installation (MW-01)	\$0.00	
Transportation (TR-01)	\$57,528.00	
Treatment and Disposal (TD-01)	\$241,583.57	
User Defined Cost (UD-01)	\$0.00	
Subtotal of Closure Costs	\$320,006.45	
Percentage of Engineering Expenses	5.0	%
Engineering Expenses	\$16,000.32	
Certification of Closure (CS-07)	\$4,118.00	
Subtotal	\$340,124.77	
Percentage of Contingency Allowance	20.0	%
Contingency Allowance	\$68,024.95	
Landfill Closure (Cover Installation) (C-02)	\$0.00	
TOTAL COST OF CLOSURE	\$408,149.72	

Tank Systems Summary (TS_02-1) *waste AST*

Removal of Waste (TS-03)	\$633.42	
Tank System Purging (ignitable waste only) (TS-04)	\$0.00	
Flushing the Tank and Piping (TS-05)	\$0.00	
Excavation, Disassembly, and Loading (TS-06)	\$0.00	
Demolition and Removal of Containment System (TS-07)	\$0.00	
Removal of Soil (TS-08)	\$0.00	
Backfill and Grading (BF-01)	\$0.00	
Decontamination (DC-01)	\$3,382.12	
Sampling and Analysis (SA-02)	\$234.77	
Monitoring Well Installation (MW-01)	\$0.00	
Transportation (TR-01)	\$3,384.00	
Treatment and Disposal (TD-01)	\$5,838.33	
User Defined Cost (UD-01)	\$0.00	
Subtotal of Closure Costs	\$13,472.64	
Percentage of Engineering Expenses	10.0	%
Engineering Expenses	\$1,347.26	
Certification of Closure (TS-09)	\$0.00	
Subtotal	\$14,819.90	
Percentage of Contingency Allowance	20.0	%
Contingency Allowance	\$2,963.98	
Landfill Closure (Cover Installation) (CI-02)	\$0.00	
TOTAL COST OF CLOSURE	\$17,783.88	

Tank Systems Summary (TS_02-1) Return/Fill

Removal of Waste (TS-03)	\$17.60	
Tank System Purging (ignitable waste only) (TS-04)	\$0.00	
Flushing the Tank and Piping (TS-05)	\$0.00	
Excavation, Disassembly, and Loading (TS-06)	\$0.00	
Demolition and Removal of Containment System (TS-07)	\$0.00	
Removal of Soil (TS-08)	\$0.00	
Backfill and Grading (BF-01)	\$0.00	
Decontamination (DC-01)	\$3,441.31	
Sampling and Analysis (SA-02)	\$704.31	
Monitoring Well Installation (MW-01)	\$0.00	
Transportation (TR-01)	\$1,692.00	
Treatment and Disposal (TD-01)	\$1,079.66	
User Defined Cost (UD-01)	\$0.00	
Subtotal of Closure Costs	\$6,934.88	
Percentage of Engineering Expenses	10.0	%
Engineering Expenses	\$693.49	
Certification of Closure (TS-09)	\$0.00	
Subtotal	\$7,628.37	
Percentage of Contingency Allowance	20.0	%
Contingency Allowance	\$1,525.67	
Landfill Closure (Cover Installation) (CI-02)	\$0.00	
TOTAL COST OF CLOSURE	\$9,154.04	

EXHIBIT H-2

FINANCIAL ASSURANCE DOCUMENTATION



PROTECTION. CHOICES. PEOPLE.
MAKE GREEN WORK

RECEIVED
ENVIRONMENTAL PROTECTION

7/28/14

July 28, 2014

Mr. Sree Kailash, P.E., C.E.M.
Staff Engineer – III
RCRA Facilities Branch
Bureau of Waste Management
Nevada Division of Environmental Protection
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249

RE: Safety-Kleen Systems, Inc.
Insurance Policy Renewal
N. Las Vegas NVR000066837

Dear Mr. Kailash:

Enclosed please find an original insurance certificate issued by Indian Harbor Insurance Company for the above-referenced Safety-Kleen facility. The face amount of the certificate has not changed; this is only a policy renewal, effective July 31, 2014. Please note the renewed policy number is PEC000952413.

The next annual inflation increase will be submitted in January 2015, unless otherwise requested.

If you have any questions, please contact me at hodge.kathleen@cleanharbors.com or at 803-225-5459.

Sincerely,

Kathy Hodge
Manager, EHS Compliance Administration

CERTIFICATE OF INSURANCE FOR CLOSURE AND/OR POST-CLOSURE CARE

Name and Address of Insurer (herein called the "Insurer"):

Indian Harbor Insurance Company
Seaview House
70 Seaview Avenue
Stamford, CT 06902-6040

Name and Address of Insured (herein called the "Insured"):

Safety-Kleen Systems, Inc.
4582 Donovan Way
N. Las Vegas, NV 89031

FACILITIES COVERED:

Name: Safety-Kleen Systems, Inc.

Address: 4582 Donovan Way
N. Las Vegas, NV 89081

Permit ID Number: NEVHW0022

EPA ID Number: NVR 000 066 837

Amount insured for this site: \$521,762

Face Amount: \$521,762

Policy Number: PEC000952413

Effective Date: July 31, 2014

The Insurer hereby certifies that it has issued to the Insured the policy of insurance identified above to provide financial assurance closure for the facilities identified above. The Insurer further warrants that such policy conforms in all respects with the requirements of 40 CFR 264.143(e), 264.145(e), 265.143(d), and 265.145(d), as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Whenever requested by the Nevada Division of Environmental Protection, Department of Conservation and Natural Resources, the Insurer agrees to furnish to the Department a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 40 CFR 264.151(e) as such regulations were constituted on the date shown immediately below.



(Authorized signature for Insurer)

Mary Ann Susavidoe, Vice President
Authorized Representative of Indian Harbor Insurance Company

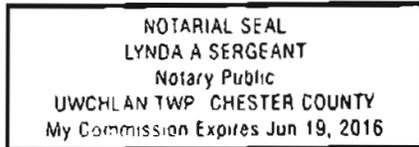


(Signature of witness or notary)

8-4-14

(Date)

SEAL





RECEIVED

JUL 29 2013

ENVIRONMENTAL PROTECTION

July 19, 2013

Mr. Sree Kailash, P.E., C.E.M.
Staff Engineer – III
RCRA Facilities Branch
Bureau of Waste Management
Nevada Division of Environmental Protection
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249

RE: Safety-Kleen Systems, Inc.
Insurance Policy Renewal

N. Las Vegas NVR000066837

Dear Mr. Kailash:

Enclosed please find an original insurance certificate issued by Indian Harbor Insurance Company for the above-referenced Safety-Kleen facility. The face amount of the certificate has not changed; this is only a policy renewal, effective July 31, 2013. Please note the renewed policy number is PEC000952412.

The next annual inflation increase will be submitted in January 2014, unless otherwise requested.

If you have any questions, please contact me at 803-473-4972 or at kathy.hodge@safety-kleen.com.

Sincerely,

Kathy Hodge
Manager, EHS Compliance Administration

CERTIFICATE OF INSURANCE FOR CLOSURE AND/OR POST-CLOSURE CARE

Name and Address of Insurer (herein called the "Insurer"):

Indian Harbor Insurance Company
Seaview House
70 Seaview Avenue
Stamford, CT 06902-6040

Name and Address of Insured (herein called the "Insured"):

Safety-Kleen Systems, Inc.
4582 Donovan Way
N. Las Vegas, NV 89031

FACILITIES COVERED:

Name: Safety-Kleen Systems, Inc.

Address: 4582 Donovan Way
N. Las Vegas, NV 89081

Permit ID Number: NEVHW0022

EPA ID Number: NVR 000 066 837

Amount insured for this site: \$512,536

Face Amount: \$512,536

Policy Number: PEC000952412

Effective Date: July 31, 2013

The Insurer hereby certifies that it has issued to the Insured the policy of insurance identified above to provide financial assurance closure for the facilities identified above. The Insurer further warrants that such policy conforms in all respects with the requirements of 40 CFR 264.143(e), 264.145(e), 265.143(d), and 265.145(d), as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

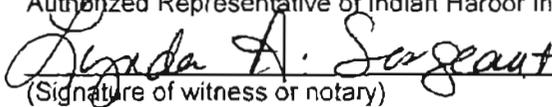
Whenever requested by the Nevada Division of Environmental Protection, Department of Conservation and Natural Resources, the Insurer agrees to furnish to the Department a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 40 CFR 264.151(e) as such regulations were constituted on the date shown immediately below.



(Authorized signature for Insurer)

Mary Ann Susavidge, Vice President
Authorized Representative of Indian Harbor Insurance Company

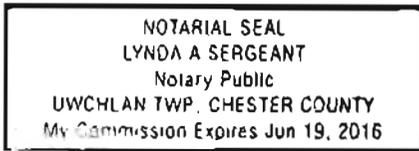


(Signature of witness or notary)

7-8-13

(Date)

SEAL





RECEIVED
NOV 25 2013
ENVIRONMENTAL PROTECTION

Via FedEx

November 20, 2013

Mr. Sree Kailash, P.E., C.E.M.
Staff Engineer – III
RCRA Facilities Branch
Bureau of Waste Management
Nevada Division of Environmental Protection
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701

RE: Safety-Kleen Systems, Inc.
REVISED – Hazardous Waste Facility Certificate of Liability Insurance

Dear Mr. Kailash:

Enclosed is a revised original Hazardous Waste Facility Certificate of Liability Insurance, for the Safety-Kleen facility in N. Las Vegas. The certificate has been revised to include the location information within the certificate, instead of being listed as an attachment.

If you have any questions, please contact me 803-473-4972 or at kathy.hodge@safety-kleen.com.

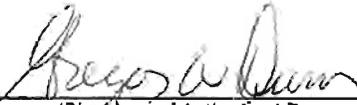
Sincerely,

Kathy Hodge
Manager, EHS Compliance Administration

HAZARDOUS WASTE FACILITY CERTIFICATE OF LIABILITY INSURANCE

1. Indian Harbor Insurance Company, the Insurer of Seaview House, 70 Seaview Avenue, Stamford, CT 06902-6040, hereby certifies that it has issued liability insurance covering bodily injury and property damage to Safety-Kleen Systems, Inc., the Insured, of 2600 North Central Expressway, Suite 400, Richardson, TX 75080 in connection with the Insured's obligation to demonstrate financial responsibility under 40 CFR 264.147 or 265.147. The coverage applies at EPA ID# NVR000066837, Safety-Kleen Systems, Inc., 4582 Donovan Way, North Las Vegas, NV 89081 for sudden and nonsudden accidental occurrences. The limits of liability are \$2,000,000 each occurrence and \$2,000,000 annual aggregate, exclusive of legal defense costs. The coverage is provided under policy number PEC0042039 issued on September 1, 2013. The effective date of said policy is September 1, 2013.
2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:
 - (a) Bankruptcy or insolvency of the Insured shall not relieve the Insurer of its obligations under the policy.
 - (b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy with a right of reimbursement by the Insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 40 CFR 264.147(f) or 265.147(f).
 - (c) Whenever requested by the Administrator of the Nevada Division of Environmental Protection (NDEP), the Insurer agrees to furnish to the Administrator a signed duplicate original of the policy and all endorsements.
 - (d) Cancellation of the insurance, whether by the Insurer, or the Insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Administrator of the NDEP in which the facility is located.
 - (e) Any other termination of the insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Director of the Nevada Division of Environmental Protection in which the facility is located.

I hereby certify that the wording of this instrument is identical to the wording specified in 40 CFR 264.151(j) as such regulation was constituted on the date first written above, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.



(Signature of Authorized Representative of Insurer)

Date: 11/6/13

Greg Dunn, Vice President

Authorized Representative of Indian Harbor Insurance Company

c/o XL Insurance
505 Eagleview Boulevard
Post Office Box 636
Exton PA 19341-0636

copy from NOEP file



RECEIVED
AUG 21 2012
ENVIRONMENTAL PROTECTION

August 29, 2012

Mr. Sree Kailash, P.E., C.E.M.
Staff Engineer – III
RCRA Facilities Branch
Bureau of Waste Management
Nevada Division of Environmental Protection
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701

RE: Hazardous Waste Liability Insurance Policy Renewal

Dear Mr. Kailash:

Enclosed is an original Hazardous Waste Facility Certificate of Liability Insurance, issued by Greenwich Insurance under policy number PEC0002102006, for the Safety-Kleen facility in N. Las Vegas. The policy has been renewed, effective September 1, 2012.

If you have any questions, please contact me 803-473-4972 or at kathy.hodge@safety-kleen.com.

Sincerely,

A handwritten signature in cursive script that reads 'Kathy Hodge'.

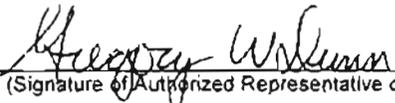
Kathy Hodge
Manager, EHS Compliance Administration



HAZARDOUS WASTE FACILITY CERTIFICATE OF LIABILITY INSURANCE

1. Greenwich Insurance Company, the Insurer of Seaview House, 70 Seaview Avenue, Stamford, CT 06902-6040, hereby certifies that it has issued liability insurance covering bodily injury and property damage to Safety-Kleen Systems, Inc., the Insured, of 2600 North Central Expressway, Suite 400, Richardson, TX 75080 in connection with the Insured's obligation to demonstrate financial responsibility under 40 CFR 264.147 or 265.147. The coverage applies at EPA ID# _____, SEE ATTACHED LIST for sudden and nonsudden accidental occurrences. The limits of liability are \$2,000,000 each occurrence and \$2,000,000 annual aggregate, exclusive of legal defense costs. The coverage is provided under policy number PEC002102006 issued on September 1, 2012. The effective date of said policy is September 1, 2012.
2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:
 - (a) Bankruptcy or insolvency of the Insured shall not relieve the Insurer of its obligations under the policy.
 - (b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy with a right of reimbursement by the Insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 40 CFR 264.147(f) or 265.147(f).
 - (c) Whenever requested by the Administrator of the Nevada Division of Environmental Protection (NDEP), the Insurer agrees to furnish to the Administrator a signed duplicate original of the policy and all endorsements.
 - (d) Cancellation of the insurance, whether by the Insurer, or the Insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Administrator of the NDEP in which the facility is located.
 - (e) Any other termination of the insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Director of the Nevada Division of Environmental Protection in which the facility is located.

I hereby certify that the wording of this instrument is identical to the wording specified in 40 CFR 264.151(j) as such regulation was constituted on the date first written above, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.



(Signature of Authorized Representative of Insurer)

Date: September 1, 2012

Greg Dunn, Vice President

Authorized Representative of Greenwich Insurance Company

c/o XL Insurance
505 Eagleview Boulevard
Post Office Box 636
Exton PA 19341-0636

SAFETY-KLEEN SYSTEMS, INC. LOCATIONS

STATE OF NEVADA

4582 Donovan Way
North Las Vegas, NV 89081 ✓

NVR000066837 ✓

9/1/2011

Sree Kailash

From: Hodge, Kathy <Kathy.Hodge@safety-kleen.com>
Sent: Tuesday, July 31, 2012 8:43 AM
To: Sree Kailash
Cc: Mike Leigh; Culian, Nick; Huntsman, David
Subject: RE: Correct zip code for your facility address

I will make a note to have that corrected.

Thank you for the information.

Kathy Hodge, Manager, US Compliance Administration | Safety-Kleen | 10000 (01) 30 | kathy.hodge@safety-kleen.com

801 473-0923 (6) | 801 473-0973 (1) | www.safety-kleen.com

safety-kleen INDUSTRIAL HYGIENE SERVICES
MAKE GREEN WORK

From: Sree Kailash [<mailto:skailash@ndep.nv.gov>]
Sent: Tuesday, July 31, 2012 11:11 AM
To: Hodge, Kathy
Cc: Mike Leigh; Culian, Nick; Huntsman, David
Subject: Correct zip code for your facility address

Kathy,

Thanks for providing the renewed Cert. of Insurance for the N. Las Vegas, NV RCRA permitted facility; I just wanted to let you know that the correct zip code for this facility is 89081 (see the link below), not 89031 as noted in the certificate; please make the correction next time around. Thanks.

<https://tools.usps.com/go/ZipLookupResultsAction!input.action?resultMode=0&companyName=&address1=4582+Donovan+Way&address2=&city=N.+Las+Vegas&state=NV&urbanCode=&postalCode=&zip=>

Sree Kailash, P.E., C.E.M
Staff Engineer-III
Nevada Division of Environmental Protection
Bureau of Waste Management
RCRA Facilities Branch
901 S. Stewart St., Suite 4001
Carson City, NV 89701-5249
Phone: (775) 687-9471
Fax: (775) 687-5856
E-mail: skailash@ndep.nv.gov



RECEIVED

JUL 30 2012

ENVIRONMENTAL PROTECTION

July 25, 2012

Mr. Sree Kailash, P.E., C.E.M.
Staff Engineer – III
RCRA Facilities Branch
Bureau of Waste Management
Nevada Division of Environmental Protection
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249

RE: Safety-Kleen Systems, Inc.
N. Las Vegas NVR000066837

Dear Mr. Kailash:

Enclosed please find an original insurance certificate issued by Indian Harbor Insurance Company for the above-referenced Safety-Kleen facility. The face amount of the certificate has not changed; this is only a policy renewal, effective July 31, 2012. Please note the renewed policy number is PEC000952411.

The next annual inflation increase will be submitted in January 2013, unless otherwise requested.

If you have any questions, please contact me at 803-473-4972 or at kathy.hodge@safety-kleen.com.

Sincerely,

A handwritten signature in cursive script that reads 'Kathy Hodge'.

Kathy Hodge
Manager, EHS Compliance Administration

CERTIFICATE OF INSURANCE FOR CLOSURE AND/OR POST-CLOSURE CARE

Name and Address of Insurer (herein called the "Insurer"):

Indian Harbor Insurance Company
Seaview House
70 Seaview Avenue
Stamford, CT 06902-6040

Name and Address of Insured (herein called the "Insured"):

Safety-Kleen Systems, Inc.
4582 Donovan Way
N. Las Vegas, NV 89031

FACILITIES COVERED:

Name: Safety-Kleen Systems, Inc.

Address: 4582 Donovan Way
N. Las Vegas, NV 89031

Permit ID Number: NEVHW0022

EPA ID Number: NVR 000 066 837

Amount insured for this site: \$501,994

Face Amount: \$501,994

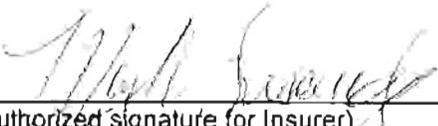
Policy Number: PEC000952411

Effective Date: July 31, 2012

The Insurer hereby certifies that it has issued to the Insured the policy of insurance identified above to provide financial assurance closure for the facilities identified above. The Insurer further warrants that such policy conforms in all respects with the requirements of 40 CFR 264.143(e), 264.145(e), 265.143(d), and 265.145(d), as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

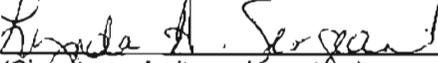
Whenever requested by the Nevada Division of Environmental Protection, Department of Conservation and Natural Resources, the Insurer agrees to furnish to the Department a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 40 CFR 264.151(e) as such regulations were constituted on the date shown immediately below.



(Authorized signature for Insurer)

Mary Ann Susavidge, Vice President
Authorized Representative of Indian Harbor Insurance Company

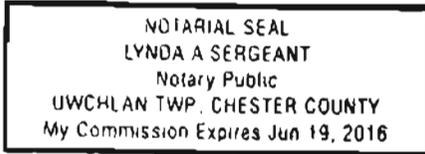


(Signature of witness or notary)

7.24.12

(Date)

SEAL



— copy from NDEP file —



RECEIVED

JAN 1

ENVIRONMENTAL PROTECTION

Via FedEx

January 17, 2012

Mr. Sree Kailash, P.E., C.E.M.
Staff Engineer – III
RCRA Facilities Branch
Bureau of Waste Management
Nevada Division of Environmental Protection
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249

RE: Safety-Kleen Systems, Inc.
Financial Assurance
January 25, 2012 Annual Inflation Increase

Dear Mr. Kailash:

Enclosed is an original insurance certificate issued by Indian Harbor Insurance Company for financial assurance coverage for Safety-Kleen's facility located in N. Las Vegas.

The certificate has been amended, effective January 25, 2012, to reflect the annual inflation increase of the closure coverage. The increase was calculated by using the annual implicit price deflator of 1.010, as published by the U.S. Department of Commerce, Bureau of Economic Affairs, Table 1.1.9 Implicit Price Deflators for Gross Domestic Product.

If you have any questions, I may be reached at 803-473-4972 or at kathy.hodge@safety-kleen.com.

Sincerely,

A handwritten signature in cursive script that reads 'Kathy Hodge'.

Kathy Hodge
Manager, EHS Compliance Administration



CERTIFICATE OF INSURANCE FOR CLOSURE AND/OR POST-CLOSURE CARE

Name and Address of Insurer (herein called the "Insurer"):

Indian Harbor Insurance Company
Seaview House
70 Seaview Avenue
Stamford, CT 06902-6040

Name and Address of Insured (herein called the "Insured"):

Safety-Kleen Systems, Inc.
4582 Donovan Way
N. Las Vegas, NV 89031

FACILITIES COVERED:

Name: Safety-Kleen Systems, Inc.

Address: 4582 Donovan Way
N. Las Vegas, NV 89031

Permit ID Number: NEVHW0022

EPA ID Number: NVR 000 066 837

Amount insured for this site: \$501,994

Face Amount: \$501,994

Policy Number: PEC000952410

Effective Date: January 25, 2012

The Insurer hereby certifies that it has issued to the Insured the policy of insurance identified above to provide financial assurance closure for the facilities identified above. The Insurer further warrants that such policy conforms in all respects with the requirements of 40 CFR 264.143(e), 264.145(e), 265.143(d), and 265.145(d), as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Whenever requested by the Nevada Division of Environmental Protection, Department of Conservation and Natural Resources, the Insurer agrees to furnish to the Department a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 40 CFR 264.151(e) as such regulations were constituted on the date shown immediately below.

Mary Ann Susavidge

(Authorized signature for Insurer)

Mary Ann Susavidge, Vice President
Authorized Representative of Indian Harbor Insurance Company

Karen V. King

(Signature of witness or notary)

4/13/12

(Date)

SEAL

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Karen V. King, Notary Public
Uwchlan Twp, Chester County
My commission expires October 31, 2014



January 20, 2010

Mr. Sree Kailash, P.E., C.E.M.
Staff Engineer – III
RCRA Facilities Branch
Bureau of Waste Management
Nevada Division of Environmental Protection
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249

RE: Safety-Kleen Systems, Inc.
Financial Assurance
January 25, 2010 Annual Inflation Increases

Dear Mr. Kailash:

Enclosed is an original insurance certificate issued by Indian Harbor Insurance Company for financial assurance coverage for Safety-Kleen's facility located in N. Las Vegas.

The certificates have been amended, effective January 25, 2010, to reflect the annual inflation increase of the financial assurance. The increase was calculated by using the annual implicit price deflator of 1.022, as published by the U.S. Department of Commerce, Bureau of Economic Affairs, Table 1.1.9 Implicit Price Deflators for Gross Domestic Product.

If you have any questions, I may be reached at 803-473-4972 or at kathy.hodge@safety-kleen.com.

Sincerely,

Kathy Hodge
Manager, EHS Compliance Administration

cc: Gary Olsen

CERTIFICATE OF INSURANCE FOR CLOSURE AND/OR POST-CLOSURE CARE

Name and Address of Insurer (herein called the "Insurer"):

Indian Harbor Insurance Company
Seaview House
70 Seaview Avenue
Stamford, CT 06902-6040

Name and Address of Insured (herein called the "Insured"):

Safety-Kleen Systems, Inc.
4582 Donovan Way
N. Las Vegas, NV 89031

FACILITIES COVERED:

Name: Safety-Kleen Systems, Inc.

Address: 4582 Donovan Way
N. Las Vegas, NV 89031

Permit ID Number: NEVHW0022

EPA ID Number: NVR 000 066 837

Amount insured for this site: \$491,130

Face Amount: \$491,130

Policy Number: PEC000952408

Effective Date: January 25, 2010

The Insurer hereby certifies that it has issued to the Insured the policy of insurance identified above to provide financial assurance closure for the facilities identified above. The Insurer further warrants that such policy conforms in all respects with the requirements of 40 CFR 264.143(e), 264.145(e), 265.143(d), and 265.145(d), as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

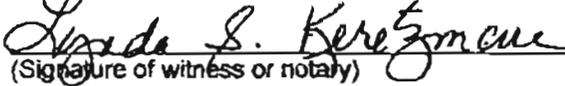
Whenever requested by the Nevada Division of Environmental Protection, Department of Conservation and Natural Resources, the Insurer agrees to furnish to the Department a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 40 CFR 264.151(e) as such regulations were constituted on the date shown immediately below.



(Authorized signature for Insurer)

Mary Ann Susavidge, Vice President
Authorized Representative of Indian Harbor Insurance Company



(Signature of witness or notary)

1-22-10

(Date)

SEAL

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Lynda S. Kerezman, Notary Public
Uwchlan Twp., Chester County
My Commission Expires June 18, 2012
Member, Pennsylvania Association of Notaries

EXHIBIT H-3

CERTIFICATE OF LIABILITY INSURANCE

— copy from NDEP file —



RECEIVED

SEP - 7 2011

ENVIRONMENTAL PROTECTION

August 31, 2011

Mr. Sree Kailash, P.E., C.E.M.
Staff Engineer – III
RCRA Facilities Branch
Bureau of Waste Management
Nevada Division of Environmental Protection
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701

RE: Hazardous Waste Liability Insurance Policy Renewal

Dear Mr. Kailash:

Enclosed is an original Hazardous Waste Facility Certificate of Liability Insurance, issued by Greenwich Insurance under policy number PEC0002102005, for the Safety-Kleen facility in N. Las Vegas. The policy has been renewed, effective September 1, 2011.

If you have any questions, please contact me 803-473-4972 or at kathy.hodge@safety-kleen.com.

Sincerely,

Kathy Hodge
Manager, EHS Compliance Administration



HAZARDOUS WASTE FACILITY CERTIFICATE OF LIABILITY INSURANCE

1. Greenwich Insurance Company, the Insurer of Seaview House, 70 Seaview Avenue, Stamford, CT 06902-6040, hereby certifies that it has issued liability insurance covering bodily injury and property damage to Safety-Kleen Systems, Inc., the Insured, of 5360 Legacy Drive, Building 2, Suite 100, Plano, TX 75024 in connection with the Insured's obligation to demonstrate financial responsibility under 40 CFR 264.147 or 265.147. The coverage applies at EPA ID# _____, SEE ATTACHED LIST for sudden and nonsudden accidental occurrences. If coverage is for multiple facilities and the coverage is different for different facilities, indicate which facility(ies) are insured for sudden accidental occurrences, which are insured for nonsudden accidental occurrences, and which are insured for both. The limits of liability are \$2,000,000 each occurrence and \$2,000,000 annual aggregate, exclusive of legal defense costs. The coverage is provided under policy number PEC002102005 issued on September 1, 2011. The effective date of said policy is September 1, 2011.
2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:
 - (a) Bankruptcy or insolvency of the Insured shall not relieve the Insurer of its obligations under the policy.
 - (b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy with a right of reimbursement by the Insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 40 CFR 264.147(f) or 265.147(f).
 - (c) Whenever requested by the Administrator of the Nevada Division of Environmental Protection (NDEP), the Insurer agrees to furnish to the Administrator a signed duplicate original of the policy and all endorsements.
 - (d) Cancellation of the insurance, whether by the Insurer, or the Insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Administrator of the NDEP in which the facility is located.
 - (e) Any other termination of the insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Director of the Nevada Division of Environmental Protection in which the facility is located.

I hereby certify that the wording of this instrument is identical to the wording specified in 40 CFR 264.151(j) as such regulation was constituted on the date first written above, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.



(Signature of Authorized Representative of Insurer)

Date: September 1, 2011

Mary Ann Susavidge, Vice President

Authorized Representative of Greenwich Insurance Company

c/o XL Insurance
505 Eagleview Boulevard
Post Office Box 636
Exton PA 19341-0636

SAFETY-KLEEN SYSTEMS, INC. LOCATIONS

STATE OF NEVADA

**4582 Donovan Way
North Las Vegas, NV 89081**

NVR000066837 ✓

9/1/2011

HAZARDOUS WASTE FACILITY CERTIFICATE OF LIABILITY INSURANCE

1. Greenwich Insurance Company, the Insurer of Seaview House, 70 Seaview Avenue, Stamford, CT 06902-6040, hereby certifies that it has issued liability insurance covering bodily injury and property damage to Safety-Kleen Systems, Inc., the Insured, of 5360 Legacy Drive, Building 2, Suite 100, Plano, TX 75024 in connection with the Insured's obligation to demonstrate financial responsibility under 40 CFR 264.147 or 265.147. The coverage applies at EPA ID# , SEE ATTACHED LIST for sudden and nonsudden accidental occurrences. If coverage is for multiple facilities and the coverage is different for different facilities, indicate which facility(ies) are insured for sudden accidental occurrences, which are insured for nonsudden accidental occurrences, and which are insured for both. The limits of liability are \$2,000,000 each occurrence and \$2,000,000 annual aggregate, exclusive of legal defense costs. The coverage is provided under policy number PEC002102004 issued on September 1, 2010. The effective date of said policy is September 1, 2010. *will be deleted per Kathy Hooper*
2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:
- (a) Bankruptcy or insolvency of the Insured shall not relieve the Insurer of its obligations under the policy.
 - (b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy with a right of reimbursement by the Insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 40 CFR 264.147(f) or 265.147(f).
 - (c) Whenever requested by the Administrator of the Nevada Division of Environmental Protection (NDEP), the Insurer agrees to furnish to the Administrator a signed duplicate original of the policy and all endorsements.
 - (d) Cancellation of the insurance, whether by the Insurer, or the Insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Administrator of the NDEP in which the facility is located.
 - (e) Any other termination of the insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Director of the Nevada Division of Environmental Protection in which the facility is located.

I hereby certify that the wording of this instrument is identical to the wording specified in 40 CFR 264.151(j) as such regulation was constituted on the date first written above, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.



(Signature of Authorized Representative of Insurer)

Date: September 1, 2010 *- See Sep 1, 2011 on file*

Christopher Biddle, Vice President

Authorized Representative of Greenwich Insurance Company

c/o XL Insurance
505 Eagleview Boulevard
Post Office Box 636
Exton PA 19341-0636

SAFETY-KLEEN SYSTEMS, INC. LOCATIONS

STATE OF NEVADA

**4582 Donovan Way
North Las Vegas, NV 89031**

NVR000066837

**1200 Marietta Way
Sparks, NV 89431**

**1355 Greg Parkway, Suite 108
Sparks, NV 89431**

NVR000081299

APPENDIX I

PERMIT CORRESPONDENCE

APPENDIX J

PERMIT MODIFICATIONS

APPENDIX K

FACILITY INTERESTED PARTIES MAILING LIST

APPENDIX L

PUBLIC MEETING NOTES

Exhibits

- L-1 Meeting Attendance Sheet
- L-2 Public Comments
- L-3 Meeting Synopsis
- L-4 Meeting Advertisement Documentation

EXHIBIT L-1

MEETING ATTENDANCE SHEET

EXHIBIT L-2

PUBLIC COMMENTS

EXHIBIT L-3

MEETING SYNOPSIS

EXHIBIT L-4

MEETING ADVERTISEMENT DOCUMENTATION

March 13, 2013

To Whom It May Concern,

Re: Safety-Kleen Systems, Inc.
Facility Permit Number: NVR000066837

On November 19, 2012 (revised 12-18-12) the North Las Vegas Nevada Facility of Safety-Kleen Systems, Inc. submitted a Class 1 permit modification with the Nevada Division of Environmental Protection – as described below:

The following changes were made:

Permit Modification 01: As required under 40 CFR 270.42 (a) (1) – Administrative and Informational changes, this modification is being submitted to update non-RCRA waste management activities. Used Oil Transfer has been added, along with consolidation of nonhazardous solids from Vacuum Truck heels. See attached new page 9 of permit.

Permit Modification 02: As required under 40 CFR 270.42 (B) (6)(d) – Changes in name, address, or phone number of coordinators or other persons or agencies identified in the plan, this modification is being submitted to update the Emergency Information sheet – Attachment 1. The following changes were made:

- First, the name, address, and phone number of the new Facility Emergency Coordinator has been added;
- Second, the Alternate Coordinator's address has been updated; and
- Third, the emergency response contactor's number has been changed from Shaw to Infotrac.

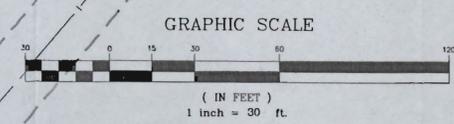
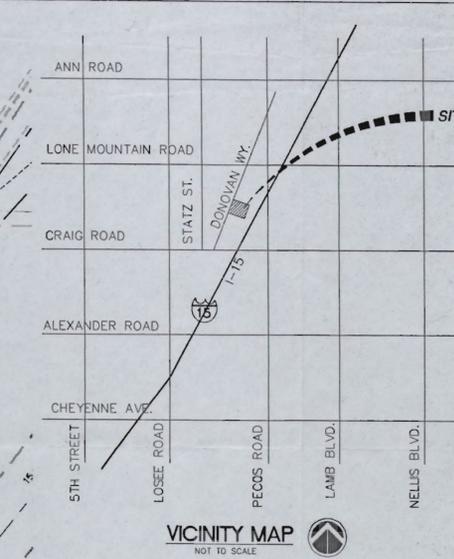
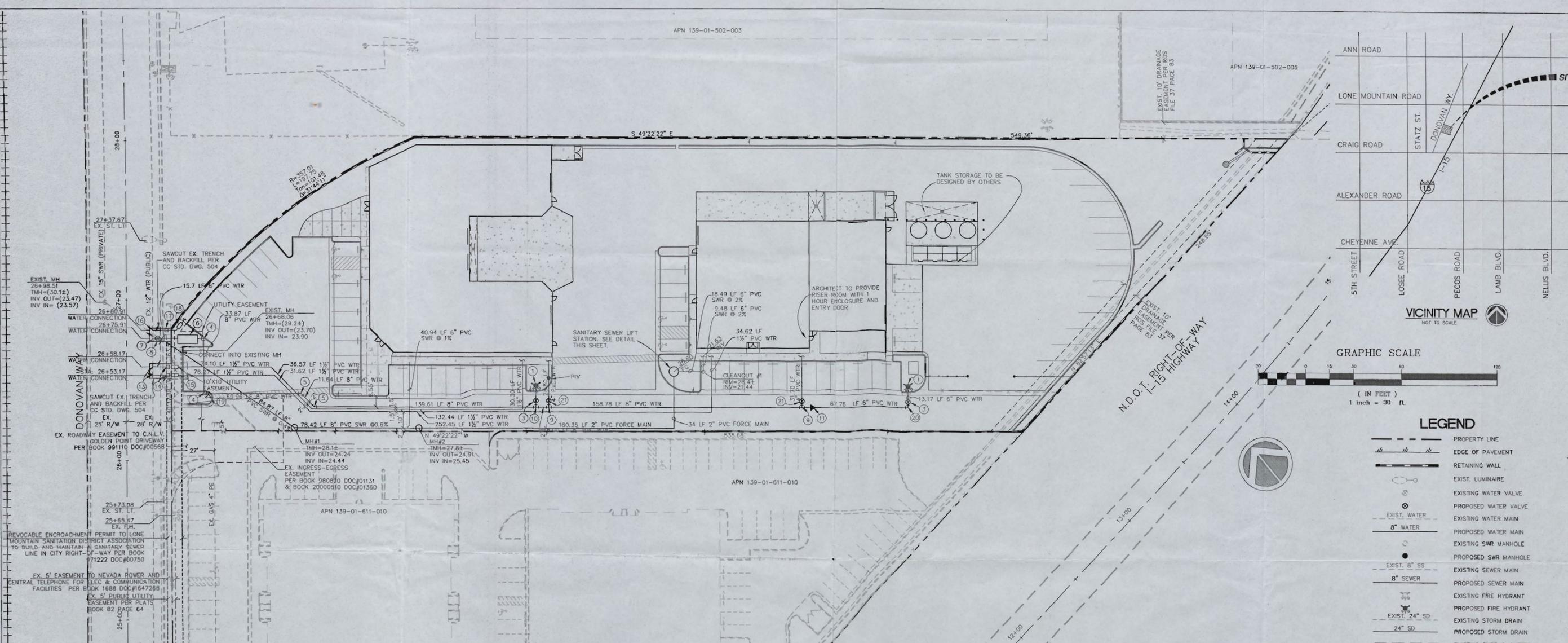
Permit Modification 03: As required under 40 CFR 270.42 (a) (1) – Administrative and Informational changes, this modification is being submitted to update the RCRA Subtitle C Site Identification Form. The site contact person was changed from David Huntsman to Scott Packer.

In accordance with 40 CFR 270.42 (a), this revision requires a Class 1 Permit Modification, and also requires that all persons who are listed on the facility mailing list be notified of this submittal. Because either you or your company is listed on the facility mailing list, you are receiving notice of this submittal per the above regulation.

If you do not have a copy of the facility's contingency plan, have any questions or desire to visit our facility please contact me at (702) 657-2300, or Nick Culian, EHS Manger at (530) 642-2653.

Sincerely,

Scott Packer
Branch General Manager



LEGEND

---	PROPERTY LINE
---	EDGE OF PAVEMENT
---	RETAINING WALL
---	EXIST. LUMINAIRE
---	EXISTING WATER VALVE
---	PROPOSED WATER VALVE
---	EXISTING WATER MAIN
---	PROPOSED WATER MAIN
---	EXISTING SWR MANHOLE
---	PROPOSED SWR MANHOLE
---	EXISTING SEWER MAIN
---	PROPOSED SEWER MAIN
---	EXISTING FIRE HYDRANT
---	PROPOSED FIRE HYDRANT
---	EXIST. 24" SD
---	PROPOSED STORM DRAIN
---	EXISTING CURB & GUTTER
---	EXISTING POWER POLE
---	EXISTING GAS MAIN
---	STOP & STREET NAME SIGN
---	STREET NAME SIGN
---	TRAFFIC SIGN

WATER CONSTRUCTION NOTES

1. STD. FIRE HYD. W/ASSY. PER UDACS PLATE 7
2. 8" TEE PER UDACS PLATE 5
3. 6" GATE VALVE PER UDACS PLATE 8
4. 8" 90° BEND PER UDACS PLATE 5
5. 8" 45° BEND PER UDACS PLATE 5
6. 8" CDCA PER UDACS PLATE 20B
7. 8" MJ TAPPING TEE PER UDACS PLATE 5
8. 8" TAPPING VALVE PER UDACS PLATE 8
9. 8"x8"x4" TEE PER UDACS PLATE 5
10. 8"x8"x6" TEE PER UDACS PLATE 5
11. 8"x6" REDUCER PER UDACS PLATE 3
12. 4" 90° BEND PER UDACS PLATE 5
13. 1/2" COPPER WATER SERVICE PER UDACS PLATE 1C
14. 1/2" WATER METER PER UDACS PLATE 1C
15. 1/2" RPPA PER UDACS PLATE 11A
16. 1" COPPER SERVICE PER UDACS PLATE 1C
17. 3/4" WATER METER PER UDACS PLATE 1C
18. 3/4" RPPA PER UDACS PLATE 11A
19. FIRE DEPARTMENT CONNECTION
20. 6" 90° BEND PER UDACS PLATE 5
21. 4" GATE VALVE PER UDACS PLATE 8

SEE SHEET 2 FOR GENERAL UTILITY NOTES AND FIRE FLOW REQUIREMENTS

NOTE
 SEWER LATERALS IN BUILDING TO HAVE 1% SLOPE (1/8" PER FOOT) TO COVER ENTIRE BUILDING

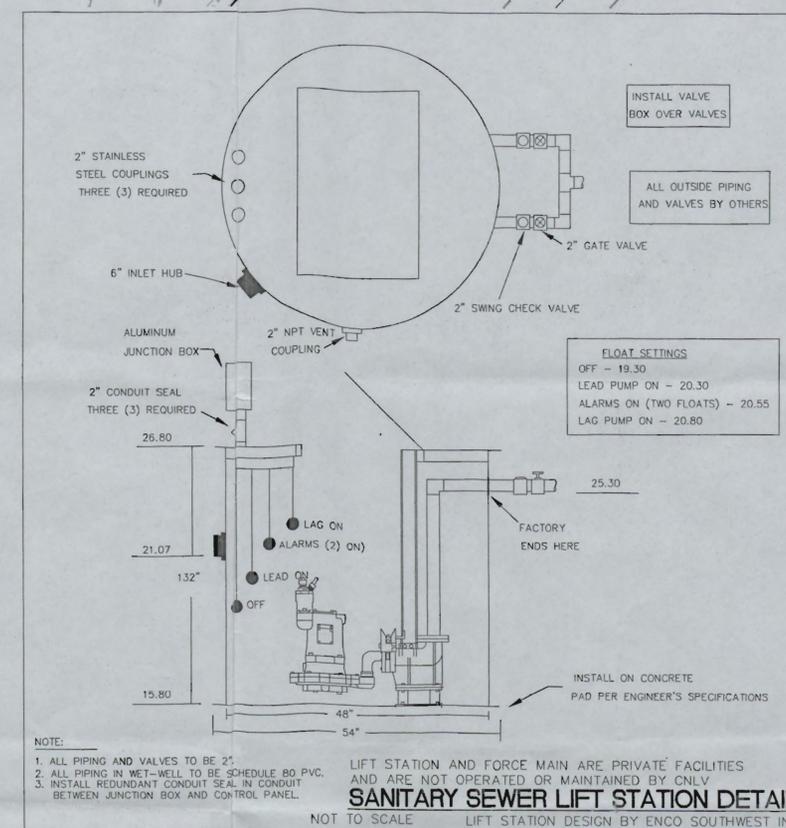
BENCHMARK

CITY OF NORTH LAS VEGAS VERTICAL CONTROL RIVET AND SQUARE ALUMINUM PLATE IN TOP OF CURB AT THE NORTHEAST CORNER AT THE INTERSECTION OF CRAIG ROAD AND DONOVAN WAY, NEAR THE PC OF DONOVAN WAY. REFERENCE NO. 6C011C4
 ELEVATION= 586.760 METERS (NAV88)
 1925.06 FEET

APPROVALS

UTILITIES DIVISION	DATE
CNLY FIRE DEPARTMENT	DATE

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR CONSTRUCTION, A COMMITMENT TO SUPPLY WATER AND/OR SEWER SERVICE, OR AN APPROVAL OF ANY VIOLATION OF CNLY WATER AND/OR SEWER SERVICE RULES AND REGULATIONS OR DESIGN AND CONSTRUCTION STANDARDS.



NOTE:
 1. ALL PIPING AND VALVES TO BE 2"
 2. ALL PIPING IN WET-Well TO BE SCHEDULE 80 PVC.
 3. INSTALL REDUNDANT CONDUIT SEAL IN CONDUIT BETWEEN JUNCTION BOX AND CONTROL PANEL.

NOTICE TO CONTRACTOR!
 EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

CALL before you Dig
 1-800-227-2600
 UNDERGROUND SERVICE (USA)

CALL BEFORE YOU GO OVERHEAD
 CALL 1-702-593-6111

UTILITY PLAN

SAFETY KLEEN AND ATP, LLC

CITY OF NORTH LAS VEGAS

TITLE	PROJECT
WORK ORDER NO. 001023	DATE 10/27/00
DESIGN BY SJW	SCALE 1"=30'
CADFILE: skrup	SHEET 7 OF 7 SHEETS
CNLY DWG NO.	

REVISION DESCRIPTION

NO.	DATE	BY	APPROV.

PROFESSIONAL ENGINEER-STATE OF NEVADA
TIMOTE S. MORENO
 CIVIL
 LICENSE NO. 10361
 STAMP DATE: 5/10/01

3610 North Rancho Drive
 Las Vegas, Nevada 89130
 Telephone: (702) 648-9700
 Fax: (702) 648-4143

ENGINEERING SOUTHWEST
 LAND PLANNING • MAPPING • DEVELOPMENT