



PREFERRED CHEMICAL NAME:		MERCURY		CAS #:	7439-97-6
Molecular Wt.	200.59	Molecular Formula:	Hg	Structural Molecular Formula:	Hg
Alternate Chemical Names:					
DOT UN # :	2809 (mercury) 2024 (mercury compounds, liquid) 2025 (mercury compounds, solid)	RTECS # :	OV4550000	NFPA 704: H-F-R-Special Hazard:	4 - 0 - 0
Physical State - Description:		Silver-White Liquid Metal Odor Threshold: Odorless			

PHYSICAL DATA					
Property	Value	Source	Property	Value	Source
Melting – Freezing Point:	-37.97°F (-38.87°C)	GENIUM	Boiling Point:	674°F (356.72°C)	GENIUM
Critical Temperature:	2664°F (1462°C)	GENIUM	Critical Pressure:	1587 atm	GENIUM
Autoignition Temperature:			Flash Point:	Non-Flammable	GENIUM
Lower Flammability Limit:			Upper Flammability Limit:		
Vapor Pressure:	0.002 mm Hg @ 77°F (25°C)	GENIUM	Vapor Specific Gravity (air = 1):	7	GENIUM
Specific Gravity:	13.534 @ 77°F (25°C)	GENIUM	Vapor Density (saturated):	1.2 kg/m ³	GENIUM
			Conversion:	1 ppm = 8.20 mg/m ³ 1 ppm = 0.00820 mg/l	CCOHS*

HAZARD OVERVIEWS		
Hazard	Overview	Source
HEALTH	Corrosive, causes severe burns to eyes/skin/respiratory tract. Toxic. Also Causes: inhalation causes respiratory and CNS effects including bronchitis, headache, and ringing in ears; severe delayed neurotoxicity and kidney damage. Possible reproductive hazard.	GENIUM
FIRE	Noncombustible. Use extinguishing agents suitable for surrounding fire.	GENIUM
REACTIVITY	Stable. Hazardous polymerization cannot occur. Avoid: exposure to high temperatures; metal surfaces. Incompatible with: most metals (except iron); oxidizers (bromine; 3-bromopropyne; methylsilane and oxygen; chlorine; chlorine dioxide; nitric acid; peroxyformic acid; tetracarbonyl nickel and oxygen; alkynes and silver perchlorate; ethylene oxide; acetylenic compounds; ammonia; boron phosphodiiodide; methyl azide; nitromethane; ground sodium carbide. Hazardous decomposition products: mercuric oxide.	GENIUM
SPECIAL HAZARD	None.	GENIUM

TOXICITY/EXPOSURE INFORMATION					
Data Term	Toxic Limit Value	Source	Data Term	Toxic Limit Value	Source
ERPG-1 (mercury vapor):	N/A	AIHA	TLV TWA :	0.025 mg/m ³ (elemental and inorganic forms)	ACGIG
ERPG-2 (mercury vapor):	0.25 ppm	AIHA	TLV STEL :	None Listed	ACGIG
ERPG-3 (mercury vapor):	0.5 ppm	AIHA	PEL TWA:	0.1 mg/m ³ Ceiling	OSHA
IDLH :	10 mg/m ³ (as Hg)	NIOSH	PEL STEL:	None Listed	OSHA



TOXICITY/EXPOSURE INFORMATION (continued)					
Classification	10 Min Exposure	30 Min Exposure	1 Hour Exposure	4 Hour Exposure	8 Hour Exposure
AEGL-1 (mercury vapor, proposed):	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended
AEGL-2 (mercury vapor, proposed):	3.1 mg/m ³	2.1 mg/m ³	1.7 mg/m ³	0.67 mg/m ³	0.33 mg/m ³
AEGL-3 (mercury vapor, proposed):	16 mg/m ³	11 mg/m ³	8.9 mg/m ³	2.2 mg/m ³	2.2 mg/m ³

LISTING OF SUBSTANCE ON PERTINENT SAFETY/ENVIRONMENTAL PROGRAMS						
Y/N	Program	Statute	Regulation	Limits or Values		
N	EPCRA EHS	Section 302 of SARA Title III Emergency Planning	40 CFR Part 355	TPQ:		
				RQ:		
Y	CERCLA	Section 304 of SARA Title III Emergency Notification	40 CFR Part 302	RQ:	1	lbs
Y	EPCRA Section 313	Section 313 of SARA Title III Toxic Release Inventory Reporting	40 CFR Part 372	MANUFACTURED/PROCESSED: 10 lbs OTHERWISE USED: 10 lbs		
N	RMP	Section 112(r) of CAAA 1990 Risk Management Plan	40 CFR Part 68	TQ:		
N	PSM	Section 304 of CAAA 1990 Process Safety Management	29 CFR Part 1910.119	TQ:		
Y	NDEP-CAPP	Nevada Revised Statutes 459.3816 Chemical Accident Prevention Program	NAC 459.9533	TQ:	200,000	lbs

*See Conversions Page