



## **SECTION 5 – FIRE FIGHTING MEASURES**

Flash Point (closed cup)	243°F
Flammable Limits	Lower explosion limit: 0.0% Upper explosion limit: 0.0%
Auto ignition temperature	No data.
Extinguishing Media	In case of fire use water spray, foam, dry chemical or CO <sub>2</sub> .
Special Fire Fighting Instructions	Firefighters should be equipped with butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus.
Unusual Fire and Explosion Hazards	None known.

## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

Spill or Leak Procedures	Ventilate the spill area. Construct a dike to contain spreading. Absorb spill with sand or other inert absorbent and place into a disposal container. Flush area with water spray.
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## **SECTION 7 – HANDLING AND STORAGE**

Handling	Avoid contact with skin and eyes. Avoid breathing vapors. Process using adequate ventilation. Wash prior to eating, drinking, smoking and when leaving work.
Storage	Keep away from strong acids and oxidizers. Store in tightly closed container to prevent moisture contamination. Store in cool, dry area.

## **SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls	Use adequate ventilation.
Eye Protection	Chemical splash goggles.
Skin Protection	Nitrile or other impervious rubber gloves. Long sleeved shirt and trousers.
Respiratory Protection	In case of overexposure, use appropriate NIOHS- approved respiratory protection.
Additional Protective Measures	Safety showers and eyewash stations should be available. Educate and train employees in the safe use of this product.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear low viscosity liquid
Odor	Irritating
pH	11.6
Vapor Pressure (mm Hg)	0.02 hPa @ 20°C
Vapor Density (Air = 1)	>1
Boiling Point	247°C
Melting Point	No Data
Solubility in Water	Complete
Specific Gravity (Water = 1)	0.9

## **SECTION 10 – STABILITY AND REACTIVITY**

Chemical Stability	Stable under normal storage conditions.
Conditions to Avoid	Do not expose to excessive heat (>260°C) or ignition sources.
Incompatibility	Mineral and organic acids. Oxidizing agents.
Hazardous Decomposition Products	Nitrogen oxides, ammonia gas, carbon dioxide and/or carbon monoxide may be generated upon combustion.
Hazardous Polymerization	Will not occur under normal conditions.

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

No data available

## **SECTION 12 – ECOLOGICAL INFORMATION**

No data available

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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## **SECTION 14 – TRANSPORTATION INFORMATION**

DOT Non-bulk Shipping Name Amines, liquid, corrosive, n.o.s. (contains epoxy amine), 8, UN 1760, PG III

DOT Bulk Shipping Name Amines, liquid, corrosive, n.o.s. (contains epoxy amine), 8, UN 1760, PG III

ICAO/IATA Shipping Data Amines, liquid, corrosive, n.o.s. (contains epoxy amine), 8, UN 1760, PG III

## **SECTION 15 – REGULATORY INFORMATION**

### U.S. Federal Regulations

#### Toxic Substances Control Act (TSCA)

All components are included in the EPA Toxic Substances Control Act (TSCA)  
Chemical Substance Inventory

OSHA Hazard Communication Standard (29 CFR 1910.1200) hazard class (es)  
Corrosive

EPA SARA Title III Section 312 (40 CFR 370) hazard class  
Immediate (acute), Delayed (chronic)

EPA SARA Title III Section 313 (40 CFR 372) toxic chemicals  
None

### Hazard Ratings

HMIS	Health	Flammability	Reactivity
	3*	1	0

Ratings Key: 4 = Highest hazard, 0 = Lowest hazard, \* = Chronic Health Hazard

## **SECTION 16 – OTHER INFORMATION**

### **DISCLAIMER**

NOTICE: The information presented herein is based on data considered to be accurate as of the date of the presentation of this Material Safety Data Sheet. However, MSDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.