

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point (closed cup)	> 200°F
Flammable Limits	Lower explosion limit: No data Upper explosion limit: No data
Auto ignition temperature	No data
Extinguishing Media	Use water spray, ABC dry chemical, foam or carbon dioxide. Use water to keep fire-exposed containers cool.
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	Above 250°C thermal dealkylation can occur yielding phenol and olefins. This reaction can become rapid at temperatures above 300°C.

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. 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	Not required under normal conditions in a well-ventilated work area.
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	Low viscosity yellow liquid
Odor	Irritating
pH	Alkaline
Vapor Pressure (mm Hg)	No Data
Vapor Density (Air = 1)	>1
Boiling Point	>210°C
Melting Point	No Data
Solubility in Water	Slightly soluble
Specific Gravity (Water = 1)	1.0

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	Stable.
Conditions to Avoid	Do not expose to excessive heat or ignition sources.
Incompatibility	Mineral and organic acids. Oxidizing agents.
Hazardous Decomposition Products	Nitrogen oxides, ammonia gas, carbon dioxide and/or carbon monoxide upon combustion.
Hazardous Polymerization	Will not occur.

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 all applicable federal, state and local environmental control regulations.

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 Health Hazard/ Chronic Health Hazard

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

HMIS	Health	Flammability	Reactivity
	2	1	0

SECTION 16 – OTHER INFORMATION

DISCLAIMER: 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.