ScholAR™ Chemistry

MATERIAL SAFETY DATA SHEET

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MSDS No. 9710704 9710706
Effective Date: September 12, 2002

SECTION I NAME

24 HOUR EMERGENCY ASSISTANCE

416-984-3000

Product	1,6-Hexanediamine
Chemical Synonyms	Hexamethylenediamine
Formula	$1,6\text{-}NH_2(CH_2)_6NH_2$
CAS No.	124-09-4

NFPA

Health	1
Flammability	2
Reactivity	1

HAZARD RATING WHMIS

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
1,6-Hexanediamine	98% min.	N/A
DANGER! CORROSIVE.		

SECTION III PHYSICAL DATA

Melting Point (°C)	39°-42°C	Specific Gravity (H_2O = 1)	0.854 @ 25°C
Boiling Point (°C)	205°C	Percent Volatile by Volume (%)	100% @ 42°C
Vapor Pressure (mm Hg)	3 mm Hg @ 60°C	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	3.8		
Solubility in Water	Soluble in water.		
Appearance & Odor	Colorless crystalline solid; strong odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

			Lower	Upper
Flash point	Closed Cup: 85°C	Flammable Limits in Air % by Volume	0.9	4.1

Firefighting Procedures

Use dry chemical, CO_2, alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.

Flammability and Explosion Hazards

The product is combustible.
Auto-ignition temperature: 390°-420°C

TDG Class 8 Corrosive solid. UN 2280

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SECTION V REACTIVITY DATA

Chemical Stability	Yes	X	If no, under what conditions?
	No		
Incompatible with Other products	Yes	X	Strong oxidizers and strong
	No		
Hazardous Decomposition Products	These products are carbon oxides, nitrogen		
Reactive under what conditions	No specific information is available.		

SECTION VI TOXICOLOGICAL PRO

Route of Entry	Ingestion.
TLV	N/A
Toxicity for animals	Acute oral toxicity (LD50): 750 mg/kg (Rat).
Chronic effects on humans	Repeated exposure of the eyes to a low leve skin exposure can produce local skin destru can produce varying degree of respiratory in kidneys, heart.
Acute effects on humans	No specific information is available.

SECTION VII PREVENTIVE MEASUR

Waste Disposal	Discharge, treatment, or disposal may be sul Consult your local or regional authorities.
Storage	Keep container dry. Keep in a cool place. G Corrosive materials should be stored in a se
Precautions	Keep container dry. Keep away from heat. I breathe dust.
Spill or leak	Use appropriate tools to put the spilled solid Wash spill area with soap and water.
Protective Clothing	Safety goggles. Synthetic apron. Vapor and

SECTION VIII FIRST AID MEASURES

Specific first aid measures

Ingestion: Call physician or Poison Control C advised by the appropriate medical personne contact lenses. Immediately flush eyes with r eyelids open. Seek medical attention. Skin c contaminated skin with running water and no fresh air. If not breathing, give artificial respir Allow victim to rest in a well ventilated area.

SECTION IX PREPARATION OF THE

Rev. No.	Date	Approved
3	September 12, 2002	M