

MATERIAL SAFETY DATA SHEET

N-Methyldiethanolamine

Section 1 - Chemical Product and Company Identification

MSDS Name:	N-Methyldiethanolamine, 99+%		
Synonyms:	MDEA; 2,2'-(Methylimino)diethanol		
Company Identification: (INDIA)	Veritas House, 70 Mint Road, Fort, Mumbai - 400 001. INDIA		
For information in the INDIA, call:	Tel: +91 - 22 - 2275 5555 / 6184 0000,		

Fax: +91 - 22 - 2275 5556 / 6184 0001

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
105-59-9	N-Methyldiethanolamine	99+%	203-312-7

Hazard Symbols:	XI
×	
Risk Phrases:	36

Section 3 - Hazards Identification

EMERGENCY OVERVIEW	
Irritating to eyes.	
Potential Health Effects	
Eye:	Causes eye irritation.
Skin:	May cause skin irritation. May be harmful if absorbed through the skin.
Ingestion:	May cause irritation of the digestive tract.
Inhalation:	May cause respiratory tract irritation. May be harmful if inhaled.
Chronic:	

Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Get medical aid. Wash mouth out with water.
Inhalation:	Remove from exposure and move to fresh air immediately.
Notes to Physician:	



Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand,
MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Section 6 - Accidental Release Measures

General	Use proper personal protective equipment as indicated in Section 8.
Information:	
Spills/Leaks:	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable
	container.

Section 7 - Handling and Storage

Handling:	Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing.
Storage:	Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering	Facilities storing or utilizing this material should be equipped with an eyewash facility
Controls:	and a safety shower. Use adequate ventilation to keep airborne concentrations low.
Exposure Limits	CAS# 105-59-9:

Personal Protecti	ve Equipment
Eyes:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Clear liquid
Color:	colorless - light yellow
Odor:	amine-like
pH:	11.5(100g/l aq.sol.)
Vapor Pressure:	0.026 mbar @ 40 deg C
Viscosity:	101mPa.s @ 20 deg C
Boiling Point:	243 deg C @ 760mmHg (469.40°F)
Freezing/Melting Point:	-21 deg C (-5.80°F)
Autoignition Temperature:	265 deg C (509.00 deg F)
Flash Point:	137 deg C (278.60 deg F)
Explosion Limits: Lower:	0.9 vol %
Explosion Limits: Upper:	8.4 vol %
Decomposition Temperature:	Not available
Solubility in water:	Miscible
Specific Gravity/Density:	1.0380 g/cc
Molecular Formula:	C5H13NO2
Molecular Weight:	119.16



Section 10 - Stability and Reactivity

Chemical Stability:	Not available
Conditions to Avoid:	Incompatible materials.
Incompatibilities with Other Materials	Incompatible materials, acids.
Hazardous Decomposition Products	Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.
Hazardous Polymerization	Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 105-59-9: KL7525000

RTECS: CAS# 105-59-9: Draize test, rabbit, eye: 5 uL Mild;
Draize test, rabbit, skin: 500 uL Mild; Oral, rat: LD50 = 1945 mg/kg;
Skin, rabbit: LD50 = 5990 uL/kg; Other:

Carcinogenicity:
N-Methyldiethanolamine - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other:
See actual entry in RTECS for complete information. Mutagenicity: Ames-test: negative.

Section 12 - Ecological Information

Ecotoxicity:

Daphnia: EC50: 233 mg/l; 48H; acute

Algae: EC50: 37 mg/l; 72H; .

Bacteria: EC50: 410 mg/l; 17H; .

Fish: Leuciscus idus: LC50: >1000 <2200 mg/l; 96H;

Other:

Biodegradable. log Pow: -1.08

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not available	Not available	Not available
Hazard Class:			
UN Number:			
Packing Group:			

Section 15 - Regulatory Information

Section 13 - negulatory information
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XI
Risk Phrases:
R 36 Irritating to eyes.
Safety Phrases:
➤ S 24 Avoid contact with skin.
WGK (Water Danger/Protection)
> CAS# 105-59-9: 1
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Canada

> CAS# 105-59-9 is listed on Canada's DSL List

US Federal



> TSCA

CAS# 105-59-9 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: July 22, 2015
Revision #0 Date

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