

Activated Methyl Diethanolamine MDEA

Part No. RXSOL-81-8205-240 — Generated 28 Sep 2026

1. Product and Company Identification

Porduct Name	Activated Methyl Diethanolamine MDEA
Part Number	RXSOL-81-8205-240
Company Details:	
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2. Composition / informationon ingredients

Chemical Name	CAS No.	Weight
Methyldiethanolamine	105-59-9	70 - 80%
Piperazine	110-85-0	18 - 20%

3. Hazards Identification

Classification according:	Eye Irritation - Category 2A.			
Signal Word:	Warning.			
Hazard Statements:	Causes serious eye irritation.			
Precautionary statements	If medical advice is needed, have product container or label at hand.			
General:	Keep out of reach of children.			
	Read label before use.			
Precautionary Statements - Response:	IF IN EYES: Rinse cautiously with water for several minutes.Remove contact lenses, if present and easy to do. Continue rinsing.			
	If eye irritation persists: Get medical advice/attention.			
Eyes:	Eye Irritation.			
Hazards not otherwise classified (HNOC):	N/A			
Formula:	C5H13NO2.			
Synonym(s):	N-Methyldiethanolamine;	2,2?-Methyliminodiethanol;	MDEA;	N-Bis(2-hydroxyethyl)methylamine.

4. First Aid Measures

Inhalation:	Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor
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Eye Contact:	Direct contact with liquid or vapor will cause serious eye irritation. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for several minutes, while holding the eyelid(s) open. Neutral saline solution may be used as soon as it is available. Take care not to rinse contaminated water into the unaffected eye or onto face. If irritation persists, obtain medical attention
Skin Contact:	Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse/wash with lukewarm, gently flowing water and mild soap for 5 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention. Wash contaminated clothing before re-use or discard.
Ingestion:	Swallowing can cause irritation of the digestive tract with abdominal and chest pain, nausea, vomiting and diarrhea. Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Immediately obtain medical advice.
Most important symptoms and effects:	N/A
Notes to Physician:	N/A

5. Fire-fighting Measures

Suitable extinguishing media:	Small Fire : Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Large Fire: Water spray, fog or alcohol-resistant foam.
Unsuitable extinguishing media:	Do not use straight stream of water. High pressure water streams may scatter hot liquid.
Flash Point:	N/A.
Method:	No information available.
Autoignition Temperature:	N/A.
Fire-fighting Procedures:	Isolate immediate hazard area and keep unauthorized personnel out. Move undamaged containers from immediate hazard area if it can be done safely.
Special protective equipment:	N/A.
Sensitivity to Static Discharge:	No information available.
Specific Hazards in Case of Fire:	During a fire, the chemical components may vaporize; these components can be severely irritating to eyes and respiratory tract. Hazardous combustion products may include and are not limited to: nitrogen oxides, hydrogen cyanide, carbon monoxide, and carbon dioxide.
Hazardous Combustion Products:	N/A
Protective Equipment and Precautions for Firefighters:	N/A

6. Accidental Release Measures

Personal precautions: Avoid breathing vapor or mist. Avoid contact with skin, eye or clothing.

Environmental Precaution:	Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainagesystems and natural waterways by using sand, earth, or other appropriate barriers. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up or taking up:	Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal.
Emergency Procedure:	Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ventilate closed spaces before entering.
Recommended Equipment:	Wear chemical protective clothing.

7. Handling and Storage

General Advice:	Avoid contact with eyes, skin and clothing. Avoid generating mists and vapors. Avoid breathing vapors. Ensure that engineering controls are operating and that protective equipment requirements are being followed.
Handling:	Inspect containers for leaks before handling.Prevent damage to containers. Keep containers closed when not in use. Assume that empty containers contain residues which are hazardous.
Storage:	Discard all contaminated leather items such as watchbands, shoes and belts. Never perform any welding, cutting, soldering, drilling or other hot work on an empty vessel, container or piping until all liquid and vapors have been cleared.
Ventilation Requirements:	Use only with adequate ventilation to control air contaminants to their exposure limits.
Storage Room Requirements:	Store in dry, cool areas, out of direct sunlight and away from other sources of heat. Empty container retain residue and may be dangerous. Keep containers tightly closed.

8. Exposure controls and personal protection

Exposure Guidelines:	N/A.
Appropriate Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
Engineering Measures:	N/A.
Personal Protective Equipment:	N/A.
Eye Protection:	Wear indirect-vent, impact and splash resistant goggles when working with liquids.
Skin and Body Protection:	Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC,neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact,chemical resistance of glove material, glove thickness, dexterity. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection:	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.
Hygiene measures:	N/A

9. Physical and chemical properties

Physical state:	Pale yellow viscous liquid
Colour:	Amber
Odour:	Amine odor
Odor Threshold:	No information available
pH:	10 to 11
Melting Point:	-
Boiling Point:	187°C (368.6°F)
Flash Point:	Open cup: >200°C (>392°F)
Evaporation Rate:	No information available
Flammability (solid, gas):	Not applicable
Lower Explosive limits:	Not applicable
Upper explosive limits	Not applicable
Decomposition temperature :	No information available
Vapour Density:	>1 [Air = 1]
Relative density:	1.043
Vapor Pressure:	0.6 kPa (4.5 mm Hg) [room temperature]
Specific Gravity;	1.04
Solubility:	completely soluble
Partitioning coefficient n-octanol/water:	No data available
Autoignition Temperature;	N/A
Viscosity:	N/A
Molecular Formula:	N/A
Molecular Weight:	Kinematic (room temperature): 0.69 cm ² / s (69 cSt)

10. Stability and reactivity

Reactive Hazard:	N/A.
Stability:	Stable under normal storage and handling conditions.
Conditions to avoid:	Avoid high temperatures and contact with sources of ignition. Avoid direct sunlight.
Incompatible Materials:	Avoid contact with strong acids, strong oxidizing agents, halogenated hydrocarbons and nitrating agents.
Hazardous Decomposition Products:	Decomposition products may include nitrogen oxides, ammonia, irritating aldehydes and ketones. Hazardous decomposition products depend upon temperature, air supply and the presence of other materials.
Hazardous reactions:	Contact with nitrosating agents, under acidic conditions such as nitrous acid, nitrite or nitrogen oxides, can form nitrosamines some of which are potent carcinogens.
Hazardous Polymerization:	Alkanolamine substances are oxidized by air slowly with evolution of heat. This reaction may lead to spontaneous combustion if the substance is on an adsorbent or on a high surface area material (e.g. absorbent material or thermal insulation).

11. Toxicological information

Toxicologically Synergistic:	No information available.
Irritation :	Causes serious eye irritation.
Sensitization:	No information available.
Mutagenic Effects:	Not mutagenic in AMES Test.
Reproductive Effects:	No information available.
Developmental Effects:	No information available.
Teratogenicity:	No information available.
STOT - single exposure:	Inhalation, ingestion, skin absorption
Exposure:	None known.
Aspiration hazard:	No information available.
Symptoms / effects,both acute and delayed:	No information available.
Endocrine Disruptor Information:	No information available.
Other Adverse Effects:	No information available.

Acute Toxicity:

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyldiethanolamine	1945 mg/kg (Rat)	6230 mg/kg (Rabbit)	N/A

Carcinogenicity:

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Methyldiethanolamine	105-59-9	Not listed	Not listed	Not listed	Not listed	Not listed

12. Ecological information

Persistence and Degradability:	Product is expected to biodegrade readily under aerobic conditions.
Bioaccumulation/ Accumulation:	Bioconcentration potential is low (BCF 100; and log Pow 3). Log Pow is estimated using the Pomona-MedChem structural fragment method to be -1.202.
Mobility:	Mobility is not likely mobile in the environment due its low water solubility.

Ecotoxicity:

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
	72 Hr EC50 Desmodesmus subspicatus: 37 mg/L.	96 Hr LC50 Leusciscus idus: 1000-2200 mg/L.		
Methyldiethanolamine:	96 Hr EC50 Desmodesmus subspicatus: 20 mg/L.	96 Hr LC50 Pimephales promelas: >1000 mg/L 48 Hr EC50 Daphnia magna: 230 mg/L.	N/A	N/A
Piperazine:	OECD 416 TwoGeneration Reproduction Toxicity Study.	Rat - Male, Female.	Positive	Positive

13. Disposal considerations

Waste treatment Method: Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, provincial and local laws.

14. Transport information

DOT: Amines, liquid, corrosive, n.o.s. (Piperazine)
TDG: Amines, liquid, corrosive, n.o.s. (Piperazine)
IATA: Amines, liquid, corrosive, n.o.s. (Piperazine)
IMDG/IMO: Amines, liquid, corrosive, n.o.s. (Piperazine)

15. Regulatory information

California Proposition 65 Not applicable
U.S. Federal Regulations: Not applicable
OSHA - Occupational Safety and Health Administration: Not applicable
CERCLA: Not applicable
U.S. Department of Transportation: Not applicable
U.S. State Right-to-Know Regulations: Not applicable

U.S. Department of Homeland Security: This product contains the following DHS chemicals: Legend - STQs = Screening Threshold Quantities, APA = A placarded amount :

Component	DHS Chemical Facility Anti-Terrorism Standard
Methyldiethanolamine	-

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII Restrictions on Certain Dangerous Substances	REACH Regulation (EC1907/2006) article 59 Candidate List of Substances of Very High Concern (SVHC)
Methyldiethanolamine	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture.

Component	CAS No	OECD HPV	Persistent Pollutant	Organic	Ozone Potential	Depletion	Restriction of Hazardous Substances (RoHS)
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Methyldiethanolamine	98-83-9	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No.	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirement	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Methyldiethanolamine	105-59-9	Listed	Not applicable	Not applicable	Not applicable

16. Other information

Other Information.

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

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