



Shree Jay Ambe

Jay Dinesh Chemicals
Quality is Priority

Certificate No. : 6709-002

Office Add:- 303/304 Murlidhar complex,
Opp Fathepura Post office,
Bhattha, Paldi, Ahmedabad- 3800 007
Gujarat, INDIA.

Teli :+91 79 26608664/ 79 26608667

9974013523/ 9909949962

Email:- Info@jaydinesh.com ; export@jaydinesh.com



Factory: Plot No.184-186, Nr. Clearis Life Science,
Vill Chacharwadi vasana, Sarkhej bavla highway,
TA, Sanand, Dist. Ahmedabad- 382 213
Gujarat, INDIA.

Teli: +91 2717 294247 / 7817 013055

+91 9979317523

Websight: www.jaydinesh.com

SAFTEY DATA SHEET MONOETHANOLAMINE

1 Identification

Product identifier

Trade name: **MONOETHANOLAMINE**

CAS Nuber: 141-43-5

EC number: 205-483-3

Application of the substance / the mixture

For industrial use only.

Details of the supplier of the safety data sheet

Manufacturer/Supplier

Manufactured by: Jay Dinesh Chemical Survey No. 184 to 186, Nr. Claris Village Chacharawadi – Vasna,
Sarkhej Bawla Highway, Ta. Sanand, Dist Ahmedabad–382213.

Information department

Customer Service Department - Jay Dinesh Chemicals

Contact: Ms. Jyoti. Chauhan.

e-mail: exports@jaydinesh.com

Emergency telephone number

During normal opening time:- +917878730626

2 Hazard(s) Identification

Classification

Acute toxicity, 4, H302

Acute toxicity, 4, H332

Acute toxicity, 4, H312

Skin corrosion, 1B, H314

Serious eye damage, 1, H318

Specific target organ toxicity - single exposure, 3, Respiratory system, H335

Long-term (chronic) aquatic hazard, 3, H41

Label elements

Hazard pictograms



Signal word: **Danger**



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Hazard statements

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects

Precautionary statements

Prevention
P261 Avoid breathing mist, vapours or spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Response
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Storage
Store locked up, Store in a well-ventilated place. Keep container tightly closed

Disposal
Dispose of contents/container to an approved waste disposal plant

Supplemental Hazard Statements none

Other hazards

Lachrymator

3 Composition/information on ingredients

Chemical characterization: Substances

Product name : MONOETHANOLAMINE (MEA)

CAS number: 141-43-5

4 First-Aid Measures

Description of first aid measures

After inhalation: If breathed in, move person into fresh air. Consult a physician after significant exposure.

After skin contact: Take off contaminated clothing and shoes immediately. Rinse immediately with plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If skin irritation persists, call a physician



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After eye contact: Rinse with plenty of water. Get medical attention immediately. Continue to rinse during transport. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

After swallowing: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Take victim immediately to hospital. Do not induce vomiting! May cause chemical burns in mouth and throat.

Information for doctor:

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-Fighting Measures

Extinguishing media

Suitable extinguishing agents:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special hazards arising from the substance or mixture: Water spray may be ineffective unless used by experienced firefighters. Do not allow run-off from fire fighting to enter drains or water courses.

Advice for firefighters

Protective equipment: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Wear respiratory protection. Ensure adequate ventilation.

Environmental precautions: Try to prevent the material from entering drains or water courses. If the product

Methods and material for containment and cleaning up:

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal

7 Handling and Storage

Handling:

Precautions for safe handling

For personal protection see section 8. Avoid formation of aerosol. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

Storage

No smoking. Keep container tightly closed in a dry and well-ventilated place. Reacts with copper, aluminium, zinc and their alloys.



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8 Exposure Controls/Personal Protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace: Not required.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be

Eye protection:



Tightly sealed goggles

9 Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Appearance:

Liquid

Odor:

amine-like



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Odor threshold :	No information available
pH-value:	12.1at 20 °C
Change in condition	
Melting point/Melting range:	4 °C at 1,013 hPa
Boiling point/Boiling range:	167 °C at 1,013 hPa
Specific gravity / density	1.46
Flash point:	92.5 °C Method: ISO 2719
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined
Auto igniting:	Not determined
Danger of explosion:	No data available
Explosion limits:	
Lower:	3.4 %(V) at 88.3 °C
Upper:	27.0 %(V) at 133.8 °C
Vapor pressure:	0.5 hPa at 20 °C
Vapor Density:	2.1 (Air = 1.0).
Relative density:	1.016 at 20 °C.
Vapor density:	1,016 kg/m ³ at 20 °C
Evaporation rate:	Not applicable.
Solubility in / Miscibility with Water:	completely miscible
Partition coefficient (n-octanol/water):	: log Pow: -2.3 at 25 °C
Viscosity:	23.18 mPa.s at 20 °C

10 Stability and Reactivity

Reactivity :The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability : Material is stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid:Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials: Strong oxidizing agents. Strong acids. Contact with strong oxidizers may cause fire or explosion.

Hazardous decomposition products:At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11 Toxicological Information



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Information on toxicological effects

Acute toxicity:

LD50 Oral - Rat: 502 - 638 mg/kg
LC50 Inhalation - Rat - male and female: > 2.1 mg/l (4h)
(OECD Test Guideline 403)
Dermal: No data available

Primary irritant effect:

on the skin:

Causes skin irritation. May cause an allergic skin reaction.
Causes serious eye irritation.

on the eye:

Sensitization:

mouse
Result: Does not cause skin sensitization. (OECD Test
Guideline 429)

Additional toxicological information:

Carcinogenic categories

This product is or contains a component that is not
classifiable as to its carcinogenicity based on its IARC,
ACGIH, NTP, or EPA classification
No component of this product, present at levels greater
than or equal to 0.1%, is identified as
probable, possible or confirmed human carcinogen by
IARC

**IARC (International Agency for Research on
Cancer):**

NTP (National Toxicology Program):

No component of this product, present at levels greater
than or equal to 0.1%, is identified as a known or
anticipated carcinogen by NTP.

**OSHA-Ca (Occupational Safety & Health
Administration) :**

No component of this product, present at levels greater
than or equal to 0.1%, is identified as a carcinogen or
potential carcinogen by OSHA.

12 Ecological Information

Toxicity

Aquatic toxicity:

No further relevant information available.

Persistence and degradability:

No further relevant information available.

Behavior in environmental systems

Bioaccumulative potential:

No further relevant information available.

Mobility in soil:

No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach

Results of PBT and vPvB assessment

PBT:

Not applicable.



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vPvB:

Not applicable.

Other adverse effects:

No further relevant information available.

13 Disposal Considerations (non-mandatory)

Waste treatment methods

Recommendation:

Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations

14 Transport Information (non-mandatory)

UN-Number

DOT, ADR, ADN, IMDG, IATA

UN 2491

UN proper shipping name

DOT, ADN, IMDG, IATA

ETHANOLAMINE

ADR

ETHANOLAMINE

Transport hazard class(es)

DOT

Class

Void

ADR, ADN, IMDG, IATA

Class

8

Packing group

DOT, ADR, IMDG, IATA

Void

Environmental hazards

Marine pollutant

No

Special precautions for user

Not applicable.

UN "Model Regulation"

Void

15 Regulatory Information (non-mandatory)

substance or mixture

Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act):

Substance is listed.



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Proposition 65

Chemicals known to cause cancer:	Substance is not listed.
Chemicals known to cause reproductive toxicity for females:	Substance is not listed.
Chemicals known to cause reproductive toxicity for males:	Substance is not listed.
Chemicals known to cause developmental toxicity:	Substance is not listed.
Carcinogenic categories	
EPA (Environmental Protection Agency):	Substance is not listed.
TLV (Threshold Limit Value established by ACGIH):	Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health):	Substance is not listed.
GHS label elements:	The substance is classified and labeled according to the
Hazard pictograms	



GHS05

Signal word:	warning
Hazard statements:	Causes serious eye damage.
Precautionary statements:	Wear eye protection / face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Quality Control Department

Contact:

e-mail: exports@jaydinesh.com

Date of preparation / last revision 04/18/2019 / -

Abbreviations and acronyms:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) Eye Dam. 1: Serious eye damage/eye irritation – Category 1



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Data compared to the previous version altered.

Revision Information: 01/2016, Sections 1, 2 revised - Information department and GHS label.

Revision Information: 01/2017, Added new ABCT Logo