

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

Trade name: Monoethanolamine  
Brand: DIYChemicals, Chemboys

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Industrial or Commercial Use only.  
Uses advised against: All other uses.

### 1.3 Details of the supplier of the Safety Data Sheet

Chemboys LLC  
212 Industrial Place,  
Liberty, TX 77575,  
USA

Phone: (855) 243-6722  
E-mail: info@chemboys.com

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to OSHA Hazardous Communication Standard 29 CFR 1910.1200.**

Acute toxicity (oral), category 4  
Acute toxicity (dermal), category 4  
Acute toxicity (inhal.), category 4  
Skin corrosive, category 1  
Respiratory irritation, category 1

### 2.2 Label elements

**Labelling according to OSHA Hazardous Communication Standard 29 CFR 1910.1200:**



**Signal word:** Danger

### 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.

### Precautionary statements:

P221 Take any precaution to avoid mixing with combustibles.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash hands thoroughly after handling.

# Chemboys LLC

## SAFETY DATA SHEET

### Monoethanolamine

Revision Date March-19-2024

P330 Rinse mouth.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

### 2.3 Other hazards

None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture meeting the criteria for classification in accordance with OSHA Hazardous Communication Standard 29 CFR 1910.1200.

### Ingredients:

Name	CAS No.	GHS classification	% (w/v)
Monoethanolamine	141-43-5	Acute Tox, 4, H302 Acute Tox. 4, H312 Skin Corr. 1, H314 Acute Tox. 4, H332 Resp. Irrit. 1, H335	>99

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

**Following inhalation:** Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

**Following skin contact:** After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

**Following eye contact:** In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

**Following ingestion:** Rinse mouth immediately and drink plenty of water. Rinse mouth with water (only if the person is conscious). Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

**Protection of first aider:** Not applicable.

#### 4.2 Most important symptoms and effects

**Symptoms:** The known symptoms and effects are described in section 2.2 of this SDS.

**Risks:** Untreated symptoms may result in additional health risks.

#### 4.3 Indication of any immediate medical and special treatment

The physician may contact the national poison centre for advice.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media:** Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

**Unsuitable extinguishing media:** No data available.

#### 5.2 Specific hazards arising from mixture

Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

#### 5.3 Advice for fire fighters

**Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

#### 5.4 Other information

No other information available.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 NOTES FOR NON-EMERGENCY PERSONNEL:** Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Keep away from drains, surface and ground water.

**6.2 ENVIRONMENTAL PRECAUTIONS:** Keep away from drains, surface and ground water. Danger of explosion.

**Notes for those trained to participate in an emergency:**

**6.3 ACCIDENTAL RELEASE MEASURES:** Covering of drains. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for safe handling**

Provision of sufficient ventilation. Handle and open container with care. Clear contaminated areas thoroughly. Keep away from sources of ignition - No smoking. Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage Conditions:** Keep container tightly closed. Hygroscopic.

**Incompatible materials:** See section 10.

**7.3 Specific end uses**

See section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

Relevant DNELs and other threshold levels				
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	3,3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
DNEL	1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs and other threshold levels				
End-point	Threshold level	Organism	Environmental compartment	Exposure time
PNEC	0,085 mg/l	aquatic organisms	freshwater	short-term (single instance)
PNEC	0,009 mg/l	aquatic organisms	marine water	short-term (single instance)
PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PNEC	0,434 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
PNEC	0,043 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
PNEC	0,037 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2

**Exposure controls**

**Engineering controls:**

Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal Protective equipment:**

Hand: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and

# Chemboys LLC

## SAFETY DATA SHEET

### Monoethanolamine

Revision Date March-19-2024

permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

**Body protection:** Appropriate protective clothing should be worn to prevent skin contact.

**Eye:** Use safety goggle with side protection.

**Respiratory:** Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

**Other measures:** No statement available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Liquid
<b>Color:</b>	clear
<b>Odor:</b>	like ammonia
<b>Odor threshold:</b>	No data available
<b>pH:</b>	7
<b>Melting point/range:</b>	-31 °C
<b>Boiling point/range:</b>	167 °C at 101 kPa
<b>Flash point:</b>	3,4 vol% (LEL) - 27 vol%
<b>Evaporation rate:</b>	No data available
<b>Flammability:</b>	flammable liquid in accordance with GHS criteria
<b>Upper/lower flammability or explosive limits:</b>	3,4 vol% (LEL) - 27 vol%
<b>Vapor pressure:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Relative Density:</b>	No data available
<b>Solubility(ies):</b>	No data available
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Auto-ignition temperature:</b>	424 °C at 101,3 kPa
<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Explosive properties:</b>	No data available
<b>Oxidizing properties:</b>	No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

It's a reactive substance. Risk of ignition.

### **10.2 Chemical stability**

Moisture-sensitive.

### **10.3 Possibility of hazardous reactions**

Exothermic reaction with: strong oxidiser, Acetic acid, Acetic anhydride, Mineral acids, Nitric acid, Sulphuric acid.

### **10.4 Conditions to avoid**

Humidity. Keep away from heat.

### **10.5 Incompatible materials**

Different plastics, copper.

### **10.6 Hazardous decomposition products**

Hazardous combustion products: see section 5.

<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>
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#### **General information:**

This product does not contain known human carcinogens.

#### **11.1 Information on toxicological effects**

##### **Acute Toxicity:**

Harmful if swallowed, in contact with skin or if inhaled.

##### **Skin corrosion/irritation:**

Causes severe skin burns and eye damage.

##### **Serious eye damage/irritation:**

No statements available for any of the ingredients.

##### **Respiratory or skin sensitization:**

May cause respiratory irritation.

##### **Germ cell mutagenicity:**

No statements available for any of the ingredients.

##### **Carcinogenicity:**

This product does not contain known human carcinogens.

##### **Reproductive toxicity:**

No statements available for any of the ingredients.

##### **STOT – single exposure:**

No statements available for any of the ingredients.

##### **STOT – repeated exposure:**

No statements available for any of the ingredients.

**Aspiration hazard:**

No statements available for any of the ingredients.

**Likely route(s) of exposure:**

Skin exposure and eye exposure are the most likely to occur. Accidental ingestion is also possible.

## SECTION 12: ECOLOGICAL INFORMATION

**General information:**

No statements available for any of the ingredients

**12.1 Toxicity**

No statements available for any of the ingredients.

**12.2 Persistence and degradability**

**Physical- and photochemical elimination:**

No statements available for any of the ingredients.

**Biodegradation:**

No statements available for any of the ingredients.

**12.3 Bioaccumulative potential**

No statements available for any of the ingredients.

**12.4 Mobility in soil**

**Known/Predicted environmental distribution:**

No statements available for any of the ingredients.

**Surface tension:**

No statements available for any of the ingredients.

**Adsorption/Desorption:**

No statements available for any of the ingredients.

**12.5 Results of PBT and vPvB assessment**

This product does not contain components which are considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

No statements available for any of the ingredients.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**

**Product:**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts

# Chemboys LLC

SAFETY DATA SHEET

## Monoethanolamine

Revision Date March-19-2024

261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

### Waste material:

Dispose according to Federal, State, Provincial and Local regulations.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID/IDMG/IATA: UN 2491

### 14.2 UN proper shipping name

ADR/RID/IDMG/IATA: ETHANOLAMINE

### 14.3 Transport hazard class(es)

ADR/RID/IDMG/IATA: 8

### 14.4 Packing group

ADR/RID/IDMG/IATA: III

### 14.5 Environmental hazards

ADR/RID/IDMG/IATA: Non-regulated

### 14.6 Special precautions for user

No statements available.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable, as product is not shipped in bulk.

## SECTION 15: REGULATORY INFORMATION

### International Inventories

TSCA: Complies

DSL: All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List.

### US Federal Regulations

**SARA 313:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute health hazard: Yes

Chronic Health Hazard: No

Fire hazard: No

Sudden release of pressure hazard: No

Reactive Hazard: No

### CWA (Clean Water Act)



# Chemboys LLC

SAFETY DATA SHEET

## **Monoethanolamine**

Revision Date March-19-2024

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This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **U.S. State Regulations**

#### **California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### **Canada**

#### **WHMIS Hazard Class**

Not determined.

<b>SECTION 16: OTHER INFORMATION</b>
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### **Further information**

The information presented in this Safety Data Sheet (SDS) is accurate to the best of our knowledge at the date of publication. The information given within the SDS is meant solely as a guide for safe handling, use, transportation, processing, storage, release and disposal. In no means can the information within the SDS be considered as a warranty or specification for quality.