



\*This SDS for user in China - Not correspond to the regulation of other regions.

**中青工业**  
— MIT-IVY —

MIT-IVY INDUSTRY CO.,LTD

Revision number: 1

Revision date: 09/05/2019

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# SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product name:** 2-(2-Aminoethylamino)ethanol  
**Company:** MIT-IVY INDUSTRY CO.,LTD  
**Address:** 2-1402,OFFICE BUILDING 2, COMMERCIAL INNER STREET AND OFFICE 1, SHIMAO PLAZE YUNLONG DISTRICT XUZHOUJIANGSU, CHINA 221100  
**Responsible Department:** Sales Department  
**Telephone:** 0086-0516-83769139  
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**Revision number:** 1

## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

<b>PHYSICAL HAZARDS</b>	Not classified
<b>HEALTH HAZARDS</b>	
Acute toxicity (Oral)	Category 5
Acute toxicity (Dermal)	Category 5
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 1B
Specific target organ toxicity	Kidney
- Repeated exposure [Category 2]	

**ENVIRONMENTAL HAZARDS** Not classified

Label elements

Pictograms or hazard symbols



**Signal word**  
**Hazard statements**

**Danger**  
 May be harmful if swallowed or in contact with skin  
 Causes severe skin burns and eye damage  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 May cause an allergic skin reaction  
 May damage fertility or the unborn child  
 May cause damage to organs through prolonged or repeated exposure : Kidney

**Precautionary statements**  
**[Prevention]**

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Do not breathe mist, vapors or spray.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wash hands and face thoroughly after handling.  
 Wear respiratory protection.

**[Response]**

Wear protective gloves, protective clothing, face protection.  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a

POISON CENTER or doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

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 or doctor.

IF exposed or concerned: Get medical advice or attention.

Store locked up.

Dispose of contents and container in accordance with local, regional, national regulations.

[Storage]

[Disposal]

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Substance/mixture:</b>	Substance
<b>Components:</b>	2-(2-Aminoethylamino)ethanol
<b>Percent:</b>	>99.0%(GC)(T)
<b>CAS RN:</b>	111-41-1
<b>Synonyms:</b>	N-(2-Aminoethyl)ethanolamine , N-(2-Hydroxyethyl)ethylenediamine
<b>Chemical Formula:</b>	C <sub>4</sub> H <sub>12</sub> N <sub>2</sub> O

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
<b>Skin contact:</b>	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
<b>Ingestion:</b>	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
<b>Protection of first-aiders:</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Dry chemical, foam, water in large amounts, carbon dioxide.
<b>Specific hazards arising from the chemical:</b>	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
<b>Precautions for firefighters:</b>	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.
<b>Special protective equipment for firefighters:</b>	When extinguishing fire, be sure to wear personal protective equipment

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
<b>Environmental precautions:</b>	Prevent product from entering drains.
<b>Methods and materials for containment and cleaning up:</b>	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Technical measures:** Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling.  
Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.

**Advice on safe handling:** Avoid all contact!

### Conditions for safe storage, including any incompatibilities

**Storage conditions:** Keep container tightly closed. Store in a cool and dark place.  
Store under inert gas.  
Protect from moisture.  
Store locked up.  
Store away from incompatible materials such as oxidizing agents.  
Hygroscopic

**Packaging material:** Comply with laws.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Install a closed system or local exhaust. Also install safety shower and eye bath.

### **Personal protective equipment**

**Respiratory protection:** Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

**Hand protection:** Impervious gloves.

**Eye protection:** Safety goggles. A face-shield, if the situation requires.

**Skin and body protection:** Impervious protective clothing. Protective boots, if the situation requires.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state (20°C):** Liquid  
**Form:** Clear  
**Colour:** Colorless - Slightly pale yellow  
**Odour:** Slight Ammoniacal  
**pH:** No data available  
**Melting point/freezing point:** No data available  
**Boiling point/range:** 244°C  
**Flash point:** 125°C  
**Flammability or explosive limits:**  
**Lower:** 3.3%  
**Upper:** 10.1%  
**Vapour pressure:** 0.1Pa/25°C  
**Vapour density:** 3.6  
**Relative density:** 1.03  
**Solubility(ies):**  
**[Water]** Miscible  
**[Other solvents]**  
**Miscible:** Alcohols  
**Very slightly soluble:** Ether  
**Log Pow:** -1.39  
**Autoignition temperature:** 368°C

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under proper conditions.

**Possibility of hazardous reactions:** No special reactivity has been reported.

**Incompatible materials:** Oxidizing agents, Acids

**Hazardous decomposition products:** Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	orl-rat LD50:3 g/kg skn-rbt LD50:3560 uL/kg ivn-rat LD50:417 mg/kg ipr-rat LD50:120 mg/kg
<b>Skin corrosion/irritation:</b>	skn-rbt 10 mg/24H open
<b>Serious eye damage/irritation:</b>	eye-rbt 50 mg SEV
<b>Germ cell mutagenicity:</b>	mmo-sat 2800 ug/plate (-S9)
<b>Carcinogenicity:</b>	
<b>IARC =</b>	No data available
<b>NTP =</b>	No data available
<b>Reproductive toxicity:</b>	No data available
<b>RTECS Number:</b>	KJ6300000

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	
<b>Fish:</b>	48h LC50:>1000 ppm (Oryzias latipes)
<b>Crustacea:</b>	No data available
<b>Algae:</b>	No data available
<b>Persistence / degradability:</b>	0 % (by BOD) , 0 % (by TOC)
<b>Bioaccumulative potential(BCF):</b>	<0.2 (conc. 1 ppm) , 2.1 - 3.7 (conc. 0.1 ppm)
<b>Mobility in soil</b>	
<b>Log Pow:</b>	-1.39
<b>Soil adsorption (Koc):</b>	4.2
<b>Henry's Law (PaM<sup>3</sup>/mol):</b>	1.1 x 10 <sup>-8</sup>

## 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

## 14. TRANSPORT INFORMATION

<b>Hazards Class:</b>	8: Corrosive.
<b>UN-No:</b>	2735
<b>Proper shipping name:</b>	Polyamines, liquid, corrosive, n.o.s.
<b>Packing group:</b>	II

## 15. REGULATORY INFORMATION

**Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011):** Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

## 16. OTHER INFORMATION

### The reference company name of written contents

<b>Company:</b>	MIT-IVY INDUSTRY CO.,LTD
<b>Address:</b>	2-1402,OFFICE BUILDING 2, COMMERCIAL INNER STREET AND OFFICE 1, SHIMAO PLAZE YUNLONG DISTRICT XUZHOUJIANGSU, CHINA 221100
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This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.