

## SAFETY DATA SHEET

Version  
Revision Date: Aug 01, 2018

### Aminoethylethanolamine ( AEEA )

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Information

Trade name : Aminoethylethanolamine ( AEEA )

Use of the substance/Mixture : Specific use(s): Chemical intermediate  
Company : Shaoxing Xingxin New materials Co., Ltd.  
NO.2 TUOZHAN ROAD, HANGZHOU BAY SHANGYU ECONOMIC AND  
TECHNOLOGICAL DEVELOPMENT AREA, ZHEJIANG PROVINCE

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#### 2. HAZARDS IDENTIFICATION

**Hazard category**

: CLASS 8.3: CORROSIVE MATERIALS: OTHER CORROSIVE  
MATERIAL.

Primary label: Corrosive Material.

: Causes burns.

May cause sensitization by skin contact.

May cause harm to the unborn child.

**Hazard Summary**

Possible risk of impaired fertility.

**GHS-Classification:**

Acute toxicity, Category 5, Oral

Acute toxicity, Category 5, Dermal

Skin corrosion, Category 1B

Serious eye damage, Category 1

Skin sensitization, Category 1

Reproductive toxicity, Category 1B

Specific target organ toxicity - single exposure, Category 3

Acute aquatic toxicity, Category 3

**GHS-Labeling**

Symbol(s)



Signal word

Danger

Hazard statements

: May be harmful if swallowed.  
May be harmful in contact with skin.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
May cause respiratory irritation.  
May damage fertility or the unborn child.  
Harmful to aquatic life.

Precautionary statements

**Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area. Contaminated  
work clothing should not be allowed out of the workplace.

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Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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/ physician.

Specific treatment (see supplemental first aid instructions on this label).

If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing before reuse.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

**Disposal:**

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

**Other hazards which do not result in classification**

No further data available.

**Primary Routes of Entry**

Inhalation Ingestion Eye contact Skin contact

**Main symptoms**

Inhalation : Inhalation of aerosols may cause irritation to mucous membranes.  
Thermal decomposition can lead to release of irritating gases and vapours.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin contact : Symptoms may be delayed.  
May cause allergic skin reaction.  
Corrosive to skin

Eye contact : May cause irreversible eye damage.  
Causes eye burns.

Ingestion Causes burns.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : Substance

**Hazardous substance**

Chemical Name	CAS-No.	Concentration [%]
Aminoethylethanolamine	111-41-1	<= 100

**4. FIRST AID MEASURES**

General advice : Immediate medical attention is required.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

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

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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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.  
If eye irritation persists, consult a specialist.

Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.  
Do not induce vomiting! May cause chemical burns in mouth and throat.

**Notes to physician**

Symptoms : No information available.  
Risks : No information available.  
Treatment : Treat symptomatically.

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**5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards during fire fighting / Specific hazards arising from the chemical : Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Dispose of rinse water in accordance with local and national regulations.  
Normal measures for preventive fire protection.

Advice on protection against fire and explosion

**Storage**  
Requirements for storage areas and containers : Prevent unauthorized access.  
Other data : Keep container tightly closed in a dry and well-ventilated place.

Advice on protection against fire and explosion : Reacts with copper, aluminium, zinc and their alloys.

**Storage**  
No decomposition if stored and applied as directed.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

We are not aware of any national exposure limit.

**Engineering measures**

Effective exhaust ventilation system  
Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protective equipment**

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Respiratory protection	: In the case of vapour formation use a respirator with an approved filter. Wear full face mask supplied with: Gas cartridge K (ammonia, green).
Hand protection	: butyl-rubber
Eye protection	: Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: Protective suit
Hygiene measures	: Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.

**Environmental exposure controls**

General advice	: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Form	: liquid
Colour	: colourless
Odour	: ammoniacal
Odour Threshold	: no data available

**Safety data**

Flash point	: 130 °C Method: Pensky-Martens BS 2000-35
Ignition temperature	: > 150 °C
Thermal decomposition	: no data available
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Flammability (solid, gas)	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Autoignition temperature	: no data available
pH	: 12 at 25 % solution
Melting point/range	: -28 °C
Boiling point/boiling range	: 244 °C
Vapour pressure	: 0.003 hPa at 20 °C
Density	: 1,030 kg/m <sup>3</sup> at 20 °C
Relative density	: 1.03
Solubility in other solvents	: Soluble in ethanol.
Water solubility	: Very soluble.
Partition coefficient: n-octanol/water	: log Pow: -1.4
Viscosity, dynamic	: 155 mPa.s at 20 °C
Viscosity, kinematic	: no data available
Relative vapour density	: 3.6
Evaporation rate	: no data available

Explosive properties : Not explosive

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## 10. STABILITY AND REACTIVITY

Conditions to avoid : Extremes of temperature and direct sunlight.

Materials to avoid : Reacts with copper, aluminium, zinc and their alloys.  
Strong acids and oxidizing agents  
Halogenated compounds

Hazardous decomposition products : nitrogen oxides (NO<sub>x</sub>)

Thermal decomposition : no data available

Chemical stability and : Note: Heating can release hazardous gases.

Hazardous reactions

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## 11. TOXICOLOGICAL INFORMATION

### Product information:

#### Hazard Summary

Inhalation : Inhalation of aerosols may cause irritation to mucous membranes.  
Thermal decomposition can lead to release of irritating gases and vapours.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin : Symptoms may be delayed.  
May cause allergic skin reaction.  
Corrosive to skin

Eyes : May cause irreversible eye damage.  
Causes eye burns.

Ingestion : Causes burns.

#### Toxicology Assessment

CMR effects : Reproductive toxicity:  
Presumed human reproductive toxicant

Further information : No further data available.

#### Test result

Sensitisation : May cause sensitization of susceptible persons.

#### Toxicology data for the components:

##### Toxicology Assessment

##### Component: Aminoethylethanolamine

CMR effects : Reproductive toxicity: Presumed human reproductive toxicant

##### Test result

##### Component: Aminoethylethanolamine

Acute oral toxicity : LD50: > 2,000 - 4,000 mg/kg  
Species: rat

Acute dermal toxicity : LD50: > 2,000 mg/kg  
Species: rabbit

Skin irritation : Result: Causes burns.

Sensitisation : Result: May cause sensitization by skin contact.

Germ cell mutagenicity

Genotoxicity in vitro : Ames' test:

Reproductive effects : Result: Not mutagenic.  
: May cause harm to the unborn child.  
Target Organ Systemic : May cause respiratory irritation.  
Toxicant - Single exposure

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## 12. ECOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Ecotoxicology Assessment

Additional ecological : None known. information

### COMPONENTS:

#### Ecotoxicology Assessment

##### Component: Aminoethylethanolamine

Results of PBT assessment : This substance is not considered to be a PBT (Persistent, Bioaccumulation, Toxic)  
This substance is not considered to be vPvB (very Persistent nor very Bioaccumulating)

Additional ecological information : Harmful to aquatic organisms.

#### Test result

##### Component: Aminoethylethanolamine

#### Ecotoxicity effects

Toxicity to fish : LC50: > 100 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates. : EC50: > 10 - 100 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

#### Elimination information (persistence and degradability)

Bioaccumulation : No bioaccumulation is expected.

Mobility : The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

Biodegradability : Result: Readily biodegradable.  
Method: OECD Guide-line 301 F - Ready Biodegradability: Manometric Respirometry Test

Further information on ecology : no data available  
Biochemical Oxygen Demand (BOD)

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## 13. DISPOSAL CONSIDERATIONS

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Hazardous waste

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

CN\_DG

UN number : 2735  
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.  
(Aminoethylethanolamine)

Class : 8  
Packing group : II  
Labels : 8  
Environmentally hazardous : no

#### IATA

UN number : 2735  
Proper shipping name : Amines, liquid, corrosive, n.o.s.  
(Aminoethylethanolamine)

Class : 8  
Packing group : II  
Labels : 8  
Packing instruction (cargo aircraft) : 855  
Packing instruction (passenger aircraft) : 851  
Packing instruction (LQ) : Y840  
Environmentally hazardous : no

#### IMDG

UN number : 2735  
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.  
(Aminoethylethanolamine)

Class : 8  
Packing group : II  
Labels : 8  
EmS Number 1 : F-A  
EmS Number 2 : S-B  
Marine pollutant : no

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## 15. REGULATORY INFORMATION

**Classification and labelling** : GB13690-1992 Classification and Labelling of Commonly Used Dangerous Chemical Substances  
Primary label: Corrosive Material.

#### Notification status

CH INV : y (positive listing)  
On the inventory, or in compliance with the inventory

US.TSCA : y (positive listing)  
All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.

DSL : y (positive listing)  
All components of this product are on the Canadian DSL list.

AICS : y (positive listing)  
On the inventory, or in compliance with the inventory

NZIoC : n (Negative listing)  
On the inventory, or in compliance with the inventory

ENCS : y (positive listing)  
On the inventory, or in compliance with the inventory

ISHL : y (positive listing)  
On the inventory, or in compliance with the inventory

KECI : y (positive listing)  
On the inventory, or in compliance with the inventory

PICCS : y (positive listing)  
On the inventory, or in compliance with the inventory

IECSC : y (positive listing)

On the inventory, or in compliance with the inventory

For explanation of abbreviation see section 16.

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## 16. OTHER INFORMATION

### Explanations for possible abbreviations mentioned in section 2

PBT : PBT: Persistent, bioaccumulative and toxic.  
vPvB : vPvB: Very persistent and very bioaccumulative.  
OEL : OEL: Occupational exposure limit.

### Notification status explanation

CH INV	Switzerland. New notified substances and declared preparations
US.TSCA	United States TSCA Inventory
DSL	Canadian Domestic Substances List (DSL)
AICS	Australia Inventory of Chemical Substances (AICS)
NZIoC	New Zealand. Inventory of Chemical Substances
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances (METI)
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances
	(PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.