

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006
Version 1.0 Revision Date 2010-08-10

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

1.1 Product identifiers

Product name : (±)-3-Amino-1,2-propanediol
CAS-No. : 616-30-8

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

Identified uses: Crude chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Saintchem Chemicals Co., Ltd.
Telephone : +86 483-8185266
Fax : +86 483-8188266
E-mail address: 891458@263.net

1.4 Emergency telephone number

Emergency Phone #: +86 483-8185266

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin corrosion (Category 1B)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Causes burns.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word

Danger

Hazard statement(s)

H314

Causes severe skin burns and eye damage

Precautionary statement(s)

P280

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

P305 + P351 + P338

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

P310

Immediately call a POISON CENTER or doctor/ physician.

Supplemental Hazard

none

Statements

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)



R-phrases(s)

R34

Causes burns.

S-phrases(s)

S26

seek medical advice.

In case of contact with eyes, rinse immediately with plenty of water and

S36/37/39

Wear suitable protective clothing, gloves and eye/face protection

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S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3 Other hazards - none

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : C₃H₉NO₂
Molecular Weight : 91,11 g/mol
CAS-No. : 616-30-8
EC-No. : 210-475-8

Component	Concentration
3-Aminopropane-1,2-diol	99.7% 99.5% 99.0%

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO_x)

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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6.4 Reference to other sections

For disposal see section 13

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

no data available

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|--|--|
| 1) Appearance | clear, viscous liquid ,colorless or light yellow |
| 2) Odour | no data available |
| 3) Odour Threshold | no data available |
| 4) pH | no data available |
| 5) Melting point/freezing point | no data available |
| 6) Initial boiling point and boiling range | 264 - 265 °C at 985 hPa - lit |
| 7) Flash point | 113 °C - closed cup |
| 8) Evaporation rate | no data available |

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9) Flammability (solid, gas)	no data available
10) Upper/lower flammability or explosive limits	no data available
11) Vapour pressure	no data available
12) Vapour density	no data available
13) Relative density	1,175 g/cm ³ at 25 °C
14) Water solubility	no data available
15) Partition coefficient: n-octanol/water	no data available
16) Auto-ignition Temperature	no data available
17) Decomposition Temperature	no data available
18) Viscosity	no data available
19) Explosive properties	no data available
20) Oxidizing properties	no data available

9.2 Other safety information

no data available

10 STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents, acids, Bases, Reducing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 7.500 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: 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

Reproductive toxicity

no data available

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Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract

Ingestion May be harmful if swallowed. Causes burns

Skin May be harmful if absorbed through skin. Causes skin burns

Eyes Causes eye burns

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Additional Information

RTECS: TY2800000

12 ECOLOGICAL INFORMATION

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product

14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 2735 IMDG: 2735 IATA: 2735

14.2 UN proper shipping name

ADR/RID:AMINES, LIQUID, CORROSIVE, N.O.S. (3-Aminopropane-1,2-diol)
IMDG :AMINES, LIQUID, CORROSIVE, N.O.S. (3-Aminopropane-1,2-diol)
IATA :AMINES, LIQUID, CORROSIVE, N.O.S. (3-Aminopropane-1,2-diol)

14.3 Transport hazard class(es)

ADR/RID: 8 IMDG: 8 IATA: 8

14.4 Packaging group

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ADR/RID:II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: no IMDG: Marine Pollutant: no IATA: no

14.6 Special precautions for user

no data available

15 REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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

mixture

no data available

15.2 Chemical Safety Assessment

no data available

16 OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Saintchem Chemicals Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.