

## Safety Data Sheets

### 1. Identification of the substance/mixture and of the company/undertaking

Product identifier :

Product name : Ammonium mercaptoacetate solution 50%

Product code(SDS NO) :44055jis\_J\_E1-1

Details of the supplier of the safety data sheet

Manufacturer/Supplier :JUNSEI CHEMICAL CO., LTD.

Address :1-6, Ohmano-Cho, Koshigaya, Saitama 343-0844, Japan

Competent section :Quality Assurance Department

Telephone number :+81-48-986-6161

FAX :+81-48-989-2787

e-mail address :shiyaku-t@junsei.co.jp

### 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

HEALTH HAZARDS

Acute toxicity Oral : Category 3

Skin sensitization : Category 1A

(Note) GHS classification without description : Not applicable/Out of classification/Not classifiable

Label elements



Signal word :Danger

HAZARD STATEMENT

Toxic if swallowed

May cause an allergic skin reaction

PRECAUTIONARY STATEMENT

Prevention

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

Wash contaminated parts thoroughly after handling.

Wear protective gloves.

Contaminated work clothing should not be allowed out of the workplace.

Do not eat, drink or smoke when using this product.

Response

IF ON SKIN: Wash with plenty of soap and water.

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

Take off contaminated clothing and wash before reuse.

Rinse mouth.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/national regulation.

### 3. Composition/information on ingredients

Substance/Preparation :

Mixtures

Common name, synonyms :Ammonium thioglycolate solution 50%

Ingredient name:Ammonium mercaptoacetate

content(%):50

Chemical formula:C<sub>2</sub>H<sub>7</sub>NO<sub>2</sub>S

Chemicals No, Japan:1-311; 2-1355

CAS No.:5421-46-5

MW:109.15

ECNO:226-540-9

Ingredient name:Water

content(%):Residual quantity of the ingredient mentioned above

Chemical formula:H<sub>2</sub>O

CAS No.:7732-18-5

MW:18.02

ECNO:231-791-2

### 4. First-aid measures

Descriptions of first-aid measures

IF INHALED

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

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash with plenty of soap and water.

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

IF IN EYES

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

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Immediately call a POISON CENTER or doctor/physician.

Call a POISON CENTER or doctor/physician if you feel unwell.

### 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire/ flame resistant/retardant clothing.

Wear cold insulating gloves/face shield/eye protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated

positive pressure mode.

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## 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Avoid release to the rivers, lakes, ocean, groundwater.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

Collect spillage.

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## 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

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

(Protective measures against fire & explosion)

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Exhaust/ventilator

Exhaust/ventilator should be available.

Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

Avoid breathing dust, vapor, mist, or gas.

Safety Measures/Incompatibility

Wear protective gloves, protective clothing or face protection.

Wear protective gloves.

Use personal protective equipment as required.

When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

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

Keep cool. Protect from sunlight.

Store locked up.

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## 8. Exposure controls/personal protection

Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA).

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

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#### Safety and Health measures

- Wash ... thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Take off contaminated clothing and wash before reuse.

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### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

##### Physical properties

Appearance :water soluble liquid

Color :colorless~pale yellow

Odor :Characteristic odor

pH :6~7 (25°C)

##### Phase change temperature

Initial Boiling Point/Boiling point data N.A.

Melting point/Freezing point data N.A.

Decomposition temperature data N.A.

Flash point data N.A.

Auto-ignition temperature data N.A.

Explosive properties data N.A.

Vapor pressure data N.A.

Vapor density data N.A.

Specific gravity/Density :1.200~1.220 g/ml (20°C )

##### Solubility

Solubility in water :miscible

n-Octanol /water partition coefficient data N.A.

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### 10. Stability and Reactivity

#### Chemical stability

Stable under normal storage/handling conditions.

#### Conditions to avoid

Contact with incompatible materials.

Heat.

#### Incompatible materials

Oxidizing agents

#### Hazardous decomposition products

Carbon oxides, Sulfur oxides, Nitrogen oxides

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### 11. Toxicological Information

#### Information on toxicological effects

##### Acute toxicity

Acute toxicity (Oral)

[GHS Cat. Japan, base data]

(Ammonium mercaptoacetate)

rat LD50 =35~142mg/kg(OECD TG 423) (SIDS, 2009)

Acute toxicity (Dermal)

[GHS Cat. Japan, base data]

(Ammonium mercaptoacetate)

rat LD50 >2000mg/kg(OECD TG 402, 71% solution) (SIDS, 2009)

##### Irritant properties

Skin corrosion/irritation

Ammonium mercaptoacetate solution 50%,  
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[GHS Cat. Japan, base data]

(Ammonium mercaptoacetate)

rabbit: Slightly irritating (OECD TG 404, 71% solution) (SIDS, 2009)

Serious eye damage /irritation

[GHS Cat. Japan, base data]

(Ammonium mercaptoacetate)

rabbit: Slightly irritating (OECD TG 404, 71% solution) (SIDS, 2009)

Skin sensitization

[GHS Cat. Japan, base data]

(Ammonium mercaptoacetate)

cat 1A; mouse; OECD TG 429; SIDS, 2009

No Mutagenic effects data available

No Teratogenic effects data available

No Carcinogenic effects data available

No reproductive toxicity data available

No STOT-single/repeated exposure data available

No Aspiration hazard data available

Additional data

There are no data available on the preparation itself.

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## 12. Ecological Information

Toxicity

No Aquatic toxicity data available

No Persistence and degradability data available

No Bioaccumulative potential data available

Additional information

There are no data available on the preparation itself.

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## 13. Disposal considerations

Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

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## 14. Transport Information

UN No, UN CLASS

Not applicable to UN NO.

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## 15. Regulatory Information

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

US major regulations

TSCA

Ammonium mercaptoacetate; Water

Other regulatory information

We are not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

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#### 16. Other information

##### GHS classification and labelling

Acute Tox. 3 : H301 Toxic if swallowed

Skin Sens. 1A : H317 May cause an allergic skin reaction

##### Reference Book

Globally Harmonized System of classification and labelling of chemicals, (4th ed., 2011), UN  
Recommendations on the TRANSPORT OF DANGEROUS GOODS 18th edit., 2013 UN  
Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)  
2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)  
2014 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

Chemical Risk Information Platform (CHRIP)(NITE) <http://www.safe.nite.go.jp/japan/db.html>

GHS Classification Guidance for Enterprises 2013 Revised Edition (August, 2013,METI)

##### Other information

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data