

## Safety Data Sheet

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

Product identifier:

Product name: Dimethyl sulfone

Product code(SDS NO): 35555jis\_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

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

### 3. Composition/information on ingredients

Substance/Mixture:

Substance

Common name, synonyms: Methyl sulfone

Ingredient name: Dimethyl sulfone

Content(%): 99.0 <

Chemical formula: C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>S

Chemicals No, Japan: 2-1557

CAS No.: 67-71-0

MW: 94.13

ECNO: 200-665-9

### 4. First-aid measures

Descriptions of first-aid measures

**IF INHALED**

Remove person to fresh air and keep 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.

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.

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

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## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

In case of fire, use water mist, foam, dry powder, CO<sub>2</sub>.

### 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

Sweep up, place in a bag and hold for waste disposal.

### Preventive measures for secondary accident

Collect spillage.

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## 7. Handling and storage

### Precautions for safe handling

#### Preventive measures

(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.

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 a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

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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.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

#### Physical properties

Appearance: Crystals or crystalline powder

Color: White

Odor data N.A.

pH data N.A.

#### Phase change temperature

Initial Boiling Point/Boiling point: 238°C

Melting point/Freezing point: 108~112°C

Decomposition temperature data N.A.

Flash point: (c.c.)140°C

Auto-ignition temperature data N.A.

Explosive properties data N.A.

Vapor pressure data N.A.

Vapor density data N.A.

Specific gravity/Density data N.A.

#### Solubility

Solubility in water: 150g/liter(20°C)

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

## 10. Stability and Reactivity

### Chemical stability

Stable under normal storage/handling conditions.

### Conditions to avoid

Contact with incompatible materials.

Open flames. Heat.

### Incompatible materials

Oxidizing agents

### Hazardous decomposition products

Carbon oxides, Sulfur oxides

## 11. Toxicological Information

### Information on toxicological effects

#### Acute toxicity

Acute toxicity (Oral), Product

rat LD50 >5g/kg (RTECS)

Acute toxicity (Dermal), Product

rabbit LD50 >5g/kg (RTECS)

No Irritant properties data available

No Allergenic and sensitizing effects data available  
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

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## 12. Ecological Information

Toxicity  
No Aquatic toxicity data available  
No Persistence and degradability data available  
No Bioaccumulative potential data available

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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  
Dimethyl sulfone  
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

Reference Book  
Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), 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) 2015 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



Dimethyl sulfone, JUNSEI CHEMICAL CO., LTD., 35555jis\_J\_E1-1, 17/07/2015

assume no liability resulting from its use. It is advised to make their own tests to determine 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.