

# Material Safety Data Sheet

## 1 Identification of substance:

Product details:

Dimethylbutyryl-S-methyl mercaptopropionate

### Manufacturer/Supplier:

ShiJiaZhuang Dowell Chemical Co.,Ltd.

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## 2 Composition/Data on components:

Chemical characterization:

Description: (CAS#)

Dimethylbutyryl-S-methyl mercaptopropionate CAS: 938063-63-9

Synonym: DMB-S-MMP

Assay: 98% min

chemical structural formula: CH3CH2C(CH3)2COSCH2CH2COOCH3

## 3 Hazards identification

Hazard description: Xi

Information pertaining to particular dangers for man and environment

Xi irritant to eyes, skin, and Respiratory System

Risk : nonflammable

Other risk: No data

## 4 First aid measures

General information

After inhalation	Immediately remove any clothing soiled by the product. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.
After skin contact	Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After eye contact	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing	Emetic, Seek immediate medical advice.

## 5 Fire fighting measures

Suitable extinguishing agents

CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents Water

Special hazards caused by the material, its products of combustion or resulting gases

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide  
sulfur dioxide

Protective equipment:

Wear self-contained respirator.  
Wear fully protective impervious suit.

## 6 Accidental release measures

### **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

### **Measures for environmental protection:**

Do not allow material to be released to the environment without proper governmental permits.

### **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Keep away from ignition sources.

**Additional information:**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

### Handling

Information for safe handling:

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away.

Protect against electrostatic charges.

### Storage

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from strong acid and alkali

Further information about storage conditions:

Store under dry inert gas.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

## 8 Exposure controls and personal protection

### Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace:

Not required.

Additional information: No data

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be

followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

Use suitable respirator when high concentrations are present.

Protection of hands:

Check protective gloves prior to each use for their proper condition.

Impervious gloves

Material of gloves

The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

Eye protection:

Safety glasses

Tightly sealed goggles

Full face protection

Body protection: Protective work clothing.

## 9 Physical and chemical properties:

### General Information

Form:	Liquid
Color:	slight yellow
Odor:	unpleasant

### Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Sublimation temperature / start:	Not determined
Flash point:	Not determined
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not determined
Density at 20°C (68°F):	Not determined
Solubility:	hard to dissolved in water

## **10 Stability and reactivity**

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Materials to be avoided:

Oxidizing agents

Bases

Dangerous reactions No dangerous reactions known

Dangerous products of decomposition:

Carbon monoxide and carbon dioxide

sulfur dioxide

## **11 Toxicological information**

Acute toxicity:

Primary irritant effect:

on the skin:

Irritant to skin and mucous membranes.

on the eye:

Irritant

Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Swallowing will lead to irritant effect on mouth and throat and to the danger of perforation of esophagus and stomach.

## **12 Ecological information:**

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

## **13 Disposal considerations**

Product:

Recommendation

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

DOT regulations:

Hazard class:

Identification number:

Packing group:

Proper shipping name (technical name):

Xi irritant

Dimethylbutyryl-S-methyl mercaptopropionate

Land transport ADR/RID (cross-border)

## 15 Regulations

Product related hazard informations:

Hazard symbols:

Xi irritant

Risk phrases:

Safety phrases:

When using do not eat or drink.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately.

National regulations

This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. Some or all of the components of this product are not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

Information about limitation of use:

For use only by technically qualified individuals.

## **16 Other information:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing MSDS: Health, Safety and Environmental Department.