

MATERIAL SAFETY DATA SHEET

1,3-Dimethyl-2-imidazolidinone MSDS

Section 1: Chemical Product and Company Identification

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Product Name: 1,3-Dimethyl-2-imidazolidinone	Contact Information
CAS: 80-73-9	Manufacture/Supplier: JINGZHOU TIANHE SCIENCE TECHNOLOGY CHEMICAL INDUSTRIAL CO.,LTD
Synonyms: DMEU,DMI N,N'-Dimethylethyleneurea	Address: JIANGJIN ROAD 18, JINGZHOU CITY, HUBEI,CHINA
RTECS: NJ0660000	Telephone: (86) 0716-8331611 Fax: (86) 0716-8331612
Chemical Formula: C ₅ H ₁₀ N ₂ O	Order Online: Not available Email: Not available

Section 2: Composition and Information on Ingredients

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Composition:	
Name	CAS #
1,3-Dimethyl-2-imidazolidinone	80-73-9

Section 3: Hazards Identification

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Risk advice to man and the environment Harmful in contact with skin and if swallowed. Irritating to skin. Risk of serious damage to eyes.	
Potential Health Effects	
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.	
Skin Harmful if absorbed through skin. Causes skin irritation.	
Eyes Causes serious eye irritation.	
Ingestion Harmful if swallowed.	

Section 4: First Aid Measures

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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 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 Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.	

Section 5: Fire and Explosion Data

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

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

Section 7: Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Normal measures for preventive fire protection.

Storage

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.

hygroscopic Store under inert gas.

Section 8: Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose 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).

Hand protection

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

Eye protection

safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Hygiene measures

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

Section 9: Physical and Chemical Properties

Physical state and appearance: clear, colorless liquid

Molecular Weight: 114.15g/mole

Boiling Point: Not available

Melting Point: 224 - 226 °C

Flash point : 102 °C (closed cup)

Vapor Pressure: Not available

Specific Gravity: 1,056 g/mL (25 °C).

Vapor Density: Not available

Section 10: Stability and Reactivity Data

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents, Acid chlorides, Phosphorus halides

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x), Hydrogen fluoride.

Section 11: Toxicological Information

Acute toxicity

LD50 Oral (rat) :1257 mg/kg

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye:Ptosis. Behavioral:Tremor.

Skin and Appendages: Other: Hair.

LD50 Dermal(rabbit male) :971 mg/kg

Irritation and corrosion

Skin - rabbit - Mild skin irritation - 14 d

Eyes - rabbit - Severe eye irritation

Section 12: Ecological Information

No data available

Section 13: Disposal Considerations

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information

ADR/RID

UN-Number: 2810 Class: 6.1 Packing group: III

Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (1,3-Dimethylimidazolidin-2-one)

IMDG

UN-Number: 2810 Class: 6.1 Packing group: III

Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (1,3-Dimethylimidazolidin-2-one)

IATA

UN-Number: 2810 Class: 6.1 Packing group: III

Proper shipping name: Toxic liquid, organic n.o.s. (1,3-Dimethylimidazolidin-2-one)

Section 15: Other Regulatory Information**Labelling according to EC Directives****Hazard symbols**

Xn Harmful

R-phrases(s)

R21/22 Harmful in contact with skin and if swallowed.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

S-phrases(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 Wear suitable protective clothing.

Section 16: Other Information**Date:** June 2,2010**Department:** Hubei Entry-Exit Inspection and Quarantine Bureau of P.R.C**Tel:**8627-58905911/58905912

Other information:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.