



SHANDONG SHING CHEMICAL CO., LTD

Add: No.1 Lutai AVE, High-tech Industrial Area, Zibo City, Shandong Province, 255000

Tel: 0086-533-3170168

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Material Safety Data Sheet R32

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: DIFLUOROMETHANE

Company: SHANDONG SHING CHEMICAL CO.,LTD

Address:No.49 Zhongrun Road,Hi-tech Industrial Area, Zibo City, Shandong Province,
China Chem-tract: +86-533-3170168

MEDICAL: +86-533-3179168

2. Composition/Information on Ingredient

Substance Name CAS Registry Number

DIFLUOROMETHANE 75-10-5

Formula: CH₂F₂

Synonyms: Carbon fluoride hydride * Difluoromethane * Methylene Difluoride

3, Hazards Identification

EMERGENCY OVERVIEW

Flammable Highly Flammable, Extremely Flammable Liquefied Gas.

For additional information on toxicity, please refer to Section 11

4, FIRST AID MEASURES

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes.

Remove contaminated clothing and shoes. Call a physician.

EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

5, Fire Fighting Measure

FLASH POINT N/A AUTOIGNITION TEMP N/A

FLAMMABILITY N/A

FIREFIGHTING



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Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazards: Emits toxic fumes under fire conditions

6, Accidental Release Measure

PROEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area and keep personal upwind. Shut off all sources of ignition. Shut off leak if there is no risk.

METHODS FOR CLEANING UP

Ventilate area and wash spill site after material pickup is complete.

7, Handling and Storage

HANDLING

User Exposure: Do not breathe gas. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place. Cylinder temperature should not exceed 125 F (52°C)

SPECIAL REQUIREMENTS

Contents under pressure.

8, Exposure Controls

ENGINEERING CONTROLS

Mechanical exhaust required .Safety shower and eye bath.

WORK PRACTICES

Store and use with adequate ventilation

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Government approved respirator in nonventation. Areas and/or for exposure above the TLV or PEL.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

9, Physical/Chemical Properties

Appearance; N/A

Molecular Weight 52.02 AMU

pH N/A

BP/BP Range -51.6°C

MP/MP Range -136°C



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Freezing Point N/A

Vapor Pressure: N/A

Vapor Density N/A

Saturated Vapor Conc, N/A

SG/Density: 1.1 g/cm³

Bulk Density: N/A

Odor Threshold N/A

Volatile % N/A

VOC Content N/A

Water Content N/A

Solvent Content N/A

Evaporation Rete N/A

Viscosity N/A

Surface Tension N/A

Partition Coefficient N/A

Decomposition Temp N/A

Flash Point N/A

Explosion Limits N/A

Flammability N/A

Autoignition Temp N/A

Refractive Index N/A

Optical Rotation N/A

Miscellaneous Data N/A

Solubility N/A

N/A= not available

10, Stability and Reactivity

STABILITY

Reactions to Avoid: Reacts violently with:

Materials to Avoid: Sodium, Potassium, Calcium, Alkali metals.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition products: Carbon monoxide, Carbon dioxide, Hydrogen fluoride.

11, Toxicological Information

ROUTE OF EXPOSURE

Skin Contact: Can cause severe frostbite. Prolonged or repeated exposure to skin causes defeating

and dermatitis. May cause skin irritation.

Eye Contact: May cause eye eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract.



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Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption.

TARGET ORGAN OR SYSTEM

Damage to the heart. Heart.

SIGNS AND SYMPTOMS OF EXPOSURE

Exposure can cause: Narcotic effect. Exposure to large amounts can cause: Damage to the heart.

Inhalation

Mouse Rat

1,810,000 mg/m³ 1,890,000 mg/m³

LC 50 LC50

Remarks: Behavioral: Change in motor activity.

Behavioral: Ataxia. Lungs, Thorax, or Respiration: Respiratory depression.

CHRONIC EXPOSURE –

TERATOGEN Species: Rat

Dose: 50000 PPM/6H 50000 PPM/6H

Route of Application: Inhalation

Exposure Time: (6-15 PREG)

Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e, g., stunted fetus) Effects on Embryo or Fetus; Fetotoxicity (except death, e, g, stunted fetus)

12, Ecological Information

No data available.

13, Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR

PREPARATION Observe all federal, state, and local environmental regulations.

APPROPRIATE METHOD OF DISPOSAL OF CONTAMINATED PACKAGING

Caution: No-return cylinder. Do not reuse. Empty cylinder will contain hazardous residue. Follow proper disposal techniques.

14, Transport Information

Proper Shipping Name:

Difluoromethane UN Number:3252

Not Allowed – Aircraft; Cargo aircraft only. Not permitted on passenger aircraft.

15 Regulatory Information

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: F

Indication of Danger: Highly Flammable.

R:11

Risk Statements: Highly Flammable.

S: 9 16 33



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Safety Statements: Keep container in well-ventilated place. Keep away from sources of ignition – no smoking , Take precautionary measures against static discharges.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Flammable (USA) Highly Flammable (EU).

Risk Statements: Extremely flammable liquefied gas.

Safety Statements: keep container in a well-ventilated place. Keep away from sources of ignition – no smoking. Take precautionary measures against static discharges.

US Statements: Target organ: Heart

UNITED STATES REGULATORY

INFORMATION SARA LISTED; No

TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: Yes

16, OTHER INFORMATION

Revision Information

Revision Date 17 JUN 2003

Key

N/E= Not Established N/A=Not Applicable (R)=Registered

Trademark The end of MSDS