

## R32 Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: DIFLUOROMETHANE

Company: Shandong Dongyue Chemical Co.,Ltd

Street Address: Huantai County,

City, Province,Zip,Country: Zibo City,Shandong Province,China, 256401

Chem-tract: +86-533-8222579

MEDICAL: +86-533-8222259

### 2. Composition/Information on Ingredient

Substance Name

CAS Registry Number

DIFLUOROMETHANE

75-10-5

Formula: CH<sub>2</sub>F<sub>2</sub>

Synonyms: Carbon fluoride hydride \* Difluoromethane \* Methylene Difluoride

### 3, Hazards Identification



UN NO.: 3252 Class: 2.1

### EMERGENCY OVERVIEW

Flammable midly 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.



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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

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 nonventilation. 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.



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## 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
Freezing Point	N/A
Vapor Pressure:	N/A
Vapor Density	N/A
Saturated Vapor Conc,	N/A
SG/Density:	1.1 g/cm <sup>3</sup>
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



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## ROUTE OF EXPOSURE

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

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

## TARGET ORGEN 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/m<sup>3</sup> 1,890,000 mg/m<sup>3</sup>

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



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## EU ADDITIONAL CLASSIFICATION

Symbol of Danger: F

Indication of Danger: Highly Flammable.

R:11

Risk Statements: Highly Flammable.

S: 9 16 33

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 1 FEB, 2022

Key

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

The end of MSDS

