

Dewpoint®

Marketed by:

DAIKIN MALAYSIA SALES & SERVICE SDN. BHD.

198301014326 (109719-M)

DEWPOINT R32 Safety Data Sheet

1. PRODUCT

Product Name: DEWPOINT R32

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

Hazard pictograms:



Signal Word : Danger

Hazard statements:

H221 : Flammable gas

H280 : Contains gas under pressure; may explode if heated

Precautionary statements:

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P377 : Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381 : Eliminate all ignition sources if safe to do so.

P410+P403 : Protect from sunlight. Store in a well-ventilated place

3. COMPOSITION AND INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL

Substance Name

CAS Registry Number

DIFLUOROMETHANE

75-10-5

Formula: CH₂F₂

Synonyms: Carbon fluoride hydride * Difluoromethane * Methylene Difluoride

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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 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.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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 non-ventilation. 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 AND CHEMICAL PROPERTIES

Appearance; Colorless/Odorless – Physical State is Gas

Molecular Weight 52.02 AMU

pH N/A

Boiling Point -51.6°C

Melting Point -136°C

Freezing Point N/A

Critical Temp 78.5°C

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

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Surface Tension	N/A
Partition Coefficient	N/A
Decomposition Temp	N/A
Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	530 °C Experimental result, Key study
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility in water	280g/l

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.

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 of Mouse Rat

1,810,000 mg/m³ LC 50

Remarks: Behavioral: Change in motor activity.

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

CHRONIC EXPOSURE – TERATOGEN

Species: Rat

Dose: 50000 PPM/6H

Route of Application: Inhalation



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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

General Information :

Do not discharge into any place where its accumulation could be dangerous. Consult supplier for specific recommendations. Do not discharge into areas where there is a risk of forming an explosive mixture with air. Waste gas should be flared through a suitable burner with flash back arrestor.

13. DISPOSAL INFORMATION

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. TRANSPORTATION 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:91633

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



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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 5 SEPTEMBER, 2021

Key

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

The end of MSDS