



Marketed by:

DAIKIN MALAYSIA SALES & SERVICE SDN. BHD.

198301014326 (109719-M)

DEWPOINT R22 Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: DEWPOINT R22

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Registry Number	Typical Wt, %
CHLORODIFLUOROMETHANE	75-45-6	100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Colorless, volatile liquid with ethereal and faint sweetish odor, Non-flammable material, Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure. Vapor displace air and can cause asphyxiation in confined spaces. At higher temperatures, (>250°C), decomposition products may include Hydrofluoric Acid (HF) and carbonyl halides.

Potential Health Effects

SKIN: Short-term overexposure by skin contact may cause frostbite, if liquid or escaping vapor contacts the skin. Repeated and/or prolonged exposure may cause defatting of the skin with itching, redness or rash. Data to evaluate to the skin permeation hazard of this compound are insufficient. There are no reports for human sensitization.

EYES: Contact with vapor of aerosol may cause eye irritation with tearing, pain or blurred vision.

Inhalation of high concentrations of vapor is harmful and may cause heart irregularities, unconsciousness or death. Intentional misuse or deliberate inhalation can be fatal. Vapors are heavier than air and pose a threat of suffocation if trapped in enclosed or low places. Liquid contact can cause frostbite. Inhalation may cause dizziness, headache,

Dewpoint®

Marketed by:

DAIKIN MALAYSIA SALES & SERVICE SDN. BHD.
198301014326 (109719-M)

confusion, and loss of consciousness.

4, FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water for at least 15 minutes, Get medical attention if irritation persists.

IF ON SKIN, Flush exposed skin with lukewarm water(not hot) until all chemical is removed, or use other means to warm skin slowly. Get medical attention if frostbitten by liquid or if irritation occurs.

IF SWALLOWED, Not applicable – product is a gas at ambient temperatures.

IF INHALED, immediately remove to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, Find a physician.

5, FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature	NE
Flash point	Not burn
Auto- ignition Temperature:	>632°C
Upper Flame Limit (volume % in air)	None
Lower Flame Limit (volume % in air)	None

Extinguishing Media

As appropriate for combustibles in area. Extinguishing agent for other burning material is sufficient to stop burning.

Fire and Explosion Hazards

Cylinders may rupture under fire conditions. Decomposition may occur.

6, ACCIDENTAL RELEASE MEASURES

Safeguards: Review FIRE FIGHTING MEASURES and HANDLING sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

If there is accidental releasing, remove open flames. Use self-contained breathe apparatus for large releases.

7, HANDLING AND STORAGE

Handling

Dewpoint®

Marketed by:

DAIKIN MALAYSIA SALES & SERVICE SDN. BHD.

198301014326 (109719-M)

Use with sufficient ventilation to keep employee exposure below recommended limits. The gas should not be mixed with air for leak testing. In general, it should not be used or allowed to be present with high concentrations of air above atmospheric pressure. Contact with chloride or other strong oxidizing agents should also be avoided.

Storage

Clean, dry area, Do not heat above 52°C

8, EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Provide local ventilation at filling zone and area where leakage is probable.

Skin Protection

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Rinse contaminated skin promptly. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

9, PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Colorless liquid and vapor
PH	Neutral
Liquid Density	1.194g/m ³ @25°C/77F
Vapor Pressure	151psia@25°C/77F
Vapor Density	3.03@25°C
Boiling Point	-40.8°C
Solubility in Water	Unknown
Molecular Weight	86.47

10,STABILITY AND REACTIVITY

Stability

This material is stable. However, avoid open flames and high temperatures.

Incompatibility

Avoid contact with strong alkali or alkaline earth metals, finely powdered metals such as aluminum, magnesium or zinc and strong oxidizers, since they may react or accelerate decomposition.

Hazardous Decomposition Products

Decomposition products are hazardous. The gas can be decomposed by high temperatures forming hydrochloric and hydrofluoric acids and possibly carbonyl halides.

11,TOXICOLOGICAL INFORMATION

IMMEDIATE EFFECTS:

Dewpoint®

Marketed by:

DAIKIN MALAYSIA SALES & SERVICE SDN. BHD.

198301014326 (109719-M)

LC50: 4 hour, LC50, rat >220,000 ppm

OTHER DATA: Not active in four genetic studies.

12, ECOLOGICAL INFORMATION

Aquatic Toxicity R22

48 hour EC50 – Daphnia magna: 433mg/L

13, DISPOSAL CONSIDERATIONS

Waste Disposal

Comply with country law, please check with laws in importers' own country law or rules.

14, TRANSPORT INFORMATION

DOT name CHORODIFLUOROMETHANE

DOT Technical Name R22

DOT Hazard Class 2.2

UN Number 1018

DOT/IMO Label: NONFLAMMABLE GAS

Shipping Containers

ISO tank, ton cylinders, disposable cylinders.

15, REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules

Immediate (Acute) Health Y Fire NO

Delayed (Chronic) Health N Reactive NO

Sudden Release of Pressure YES

16, OTHER INFORMATION

Revision Information

Revision Date 1, DEC, 2018

Key

NE= Not Established NA=Not Applicable (R)=Registered Trademark

END OF MSDS