

Safety Data Sheet (SDS)

The content and format of this SDS is accordant with 29 CFR 1910.1200 (OSHA standard)

1. Identification

Product details:

Product name: Dehumidifier

Product Code: --

Recommended use of the chemical and restrictions on use: Refrigerant. Restrictions on use: Do NOT use it in an application which may contaminate food or do harm to human health.

Manufacturer/Supplier: Waykar Inc.

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2. Hazards identification

GHS classification:

Physical hazards:	Flammable gases - Category 1 Gases under pressure - Category Liquefied gas
Health hazards:	Not classified
Environmental hazards:	Not classified

Signal Word: Danger

Pictograms:



Hazard Statements:

H220: Extremely flammable gas.

H280: Contains gas under pressure; may explode if heated.

Precautionary Statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

Response Precautionary Statements:

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

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

Storage precautionary statements:

P403: Store in well-ventilated place.

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

Disposal precautionary statements:

No special requirements.

3. Composition/information on ingredients

Product description: substance (√); mixture ().

Ingredient (s)	CAS No.	EC No.	% by weight
Methylene fluoride	75-10-5	200-839-4	100

4. First aid measures

Persons using this product should consult a physician or other medical professional if an accident involving this product results in injury. Specific first-aid measures are as follows:

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical help if you feel unwell.

Skin Contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eyes Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Rinse mouth. Do not induce vomiting without professional instruction. Get medical help if you feel unwell.

Acute effect and delayed effect:

Acute effect: Not found.

Delayed effect: Not found.

Personal protective equipment: Wear protective gloves/protective clothing/eye protection/face protection when necessary.

Indication of immediate medical attention and treatment needed, if necessary: Treat according to symptoms and exposure dose.

5. Fire-fighting measures

Extinguishing Media: Do not extinguish a leaking gas fire unless leak can be stopped. Water Spray or Fog. Dry powder. carbon dioxide.

Unsuitable Extinguishing Media: Reinforced liquid (straight stream).

Special hazards arising from the chemical: Extremely flammable gas. Contains gas under pressure; may explode if heated. If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition: Hydrogen fluoride; Carbon monoxide; Carbonyl difluoride.

Fire Fighting Method:

Small Fire:

Dry chemical or carbon dioxide.

Large Fire:

Water spray or fog.

If it can be done safely, move undamaged containers away from the area around the fire.

Fire Involving Tanks:

Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles.

Cool containers with flooding quantities of water until well after fire is out.

Do not direct water at source of leak or safety devices; icing may occur.

Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

ALWAYS stay away from tanks engulfed in fire.

For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Special actions for fire-fighters: Firefighters must wear self-contained breathing apparatus and full protective equipment. Check whether the protective equipment is in good condition before use.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Use proper personal protective equipment as indicated in Section 8.

Emergency procedures:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.

All equipment used when handling the product must be grounded.

Do not touch or walk through spilled material.

Stop leak if you can do it without risk.

If possible, turn leaking containers so that gas escapes rather than liquid.

Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.

Do not direct water at spill or source of leak.

Environmental precautions: Keep cleaning run-offs out of municipal sewers and open bodies of water. Comply with local and national laws and regulations.

Methods and material for containment and cleaning up:

Stop the source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Contact competent authorities after a spill.

7. Handling and storage

Precautions for safe handling:

Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

Handle with care. Caution when opening, pressurized container.

Do not use in area without adequate ventilation.

Do not pierce or burn, even after use.

Do not remove seal unless immediately before use.

Follow the general precautions for handling, storing, and using compressed gases.

Conditions for safe storage, including any incompatibilities: Store it in a well-ventilated, cool and dry store room. Keep away from heat/sparks/open flames/hot surfaces.

Incompatible substances or mixtures: Strong oxidant.

Packing material: Metal cylinder.

8. Exposure controls/personal protection

Occupational Exposure Limits:

Ingredients	OSHA PEL-TWA	ACGIH TLV-TWA
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Not applicable

Not applicable

Not applicable

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Install washer eyes and safety showers near to the handling and storage area.

Personal Protective Equipment (For workers):

Protection of Hands: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Wear working gloves while handling containers. Guideline: EN 388 Protective gloves against mechanical risks.



Protection of Eyes: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



Respiratory Protection: In gas leak case, to wear compressed air breathing apparatus is recommended.



Protection of Body: Protective clothing (cotton), The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

9. Physical and chemical properties

General Information	
Form	Appliance with Freon
Color	Colorless (Liquefied gas)
Odor	Odorless (Liquefied gas)

Odor threshold	No data available
pH	No data available
Melting point/freezing point	-136°C (101325 Pa) (Liquefied gas)
Initial boiling point and boiling range	-51.6°C (101325 Pa) (Liquefied gas)
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas, etc.)	Extremely flammable gas Contains gas under pressure; may explode if heated
Upper/lower flammability or explosive limits	No data available
Vapor pressure	1701 kPa (25°C) (Liquefied gas)
Vapor density	No data available
Density	No data available
Solubility (ies)	No data available
Partition coefficient: n-octanol/Water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. Stability and reactivity

Reactivity: Not reactive under normal handling and storage.

Chemical stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions: Can form a potentially explosive atmosphere in air. May react violently with oxidants.

Conditions to Avoid: Keep away from heat/sparks/open flames/hot surfaces.

Incompatible materials: Strong oxidant.

Hazardous decomposition products: No relevant information.

11. Toxicological information

Product Toxicity Data:

Ingredient (s)	CAS No.	LD ₅₀ /LC ₅₀ (Median lethal dose)
Methylene fluoride	75-10-5	Acute toxicity (Inhalation: Gases) LC ₅₀ > 520,000 ppm/4h (rat) Data source: ECHA
Classification of the whole product:		Not classified

Skin corrosion/irritation	No classification for this product.
Serious eye damage/eye irritation	No classification for this product.
Sensitisation, respiratory	No classification for this product.
Sensitisation, skin	No classification for this product.
Germ cell mutagenicity	No classification for this product.
Carcinogenicity	No classification for this product.
Reproductive Toxicity	No classification for this product.

Specific target organ toxicity, single exposure:	No classification for this product.
Specific target organ toxicity, repeated exposure:	No classification for this product.
Aspiration hazard	No classification for this product.

12. Ecological information

Ecotoxicity:

Methylene fluoride (CAS: 75-10-5):

96h-LC₅₀: 1,405 mg/L, fish (*Pimephales promelas*) (ECHA)

48h-EC₅₀: 1,573 mg/L, aquatic invertebrates (*Daphnia magna*) (ECHA)

96h-EC₅₀: 1,888 mg/L, algae (*Raphidocelis subcapitata*) (ECHA)

Classification of the whole product: Not classified

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in Soil: No data available

Other adverse effects: No relevant information.

13. Disposal considerations

Waste treatment methods:

It is recommended to recycle and reuse it.

Any disposal practice must be in compliance with country, local, state, and federal laws and regulations.

Generally this product will not contaminate the packaging, so the packaging can be disposed of as non-hazardous waste.

14. Transport Information

DOT/Air-Transportation- IATA/ICAO/Sea-Transportation-IMO/IMDG:

UN proper shipping name: Refrigerating machines

Transport hazard class(es): 2.1

UN number: 3358

Packing Group: Not applicable

Packing Group Symbol:



Marine Pollutant (Yes/No): No

EMS NO.: F-D S-U

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable.

Special precautions:

Check whether the package is completed or sealed before transporting; make sure no damage of packages and prevent goods from falling down during transporting; the transport vehicle should be equipped with facilities for fire-fighting and accidental

release handling; do NOT transport this product together with incompatible substances; stay away from fire and areas of high temperature during stopovers.

15. Regulatory information

United States:

Emergency Planning and Community Right-to-Know Act (EPCRA) section 313 chemicals:

Chemical Name	CAS No.	Weight-%	SARA 313 – Threshold Values %
Not applicable	Not applicable	Not applicable	Not applicable

40 CFR part 355 (Extremely Hazardous Substances): Not listed.

California Proposition 65:

Chemical Name	CAS No.	Type of Toxicity
Not applicable	Not applicable	Not applicable

Clean Water Act:

Ingredient (s)	CWA - Reportable Quantities	CWA - Hazardous Substances	CWA - Priority Pollutants	CWA - Toxic Pollutants
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Toxic Substances Control Act (TSCA):

Chemical Name	CAS No.	TSCA Inventory
Difluoromethane	75-10-5	Listed

Carcinogenicity categories: Not applicable.

Other relevant laws and regulations:

Candidate List of Substances of very high concern (SVHC) according to ECHA: Not listed.

REACH Regulation Annex XVII Regulation List: Not listed.

REACH Regulation Annex XIV Authorization List: Not listed.

Germany – WGK: Not classified.

(EC) 1272/2008 Annex VI Table 3.1:

Ingredient(s)	EC No. 1272/2008 Classification	
	CLASS. CODE	HAZARD CODE
Not applicable	Not applicable	Not applicable

Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

16. Other information

DISCLAIMER:

All the information of this SDS is true and effective, and only for reference. Our company will not control the way how people use it, neither will we be responsible for any consequence. The users shall decide how to properly use the product or adopt certain production way for some special purpose. The above-mentioned precautionary measures are helpful to avoid damage to the property or life safety during the operation or use of this product.

References:

GHS Annex II
GHS SDS Instruction
ANSI Z400.1/Z129.1-2010
OSHA Hazard Communication Standard (HCS) 2012

Full description of some acronyms:

CAS-Chemical Abstracts Service
EINECS-European Inventory of Existing Commercial Chemical Substances
IMO-International Maritime Organization
IMDG-International Maritime Dangerous Goods
IATA-International Air Transport Association
ICAO-International Civil Aviation Organization
TSCA-Toxic Substances Control Act
OSHA-Occupational Safety and Health Administration
ACGIH- American Conference of Governmental Industrial Hygienists
ECHA- European Chemicals Agency
NITE-CHRIP- Japan National Institute of Technology and Evaluation-Chemical Risk Information Platform

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*****The End*****