Dust Air

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

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Revision date: 2024-04-22
Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form	:	Substance
Substance name	:	Dust Air
Product code	:	Not available

1.2. Recommended use and restrictions on use

Use of the substance/mixture	:	Propellant gas

1.3. Supplier

Supplier
HSI Fire and Safety Group, LLC
1424 Armour Blvd
Mundelein, IL 60060
T +1 (847) 427-8340 - F +1 (847) 427-8343
hsi@hsifiresafety.com

Distributor
HSI Fire and Safety Group, LLC
Unit # 1281
3-1750 The Queensway
Etobicoke, ON M9C 5H5

1.4. Emergency telephone number

Emergency number	:	CHEMTREC 1 (800) 424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Flam. Aerosol 1
Press. Gas (Liq.)
Simple Asphy

2.2. GHS Label elements, including precautionary statements

GHS labelling

Hazard pictograms (GHS) :

Signal word (GHS) : Danger

Hazard statements (GHS) : Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation

Precautionary statements (GHS) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Store in a well-ventilated place.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : Dust Air

Name	Product identifier	%
1,1-Difluoroethane	CAS-No.: 75-37-6	100

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : If skin irritation occurs: Obtain medical attention if irritation persists. Thaw frosted parts with lukewarm water. Do not rub affected area.

First-aid measures after eye contact : IF IN EYES: 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. Thaw frosted parts with lukewarm water. Do not rub affected area.

First-aid measures after ingestion : Not a normal route of exposure. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause respiratory tract irritation. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Symptoms of oxygen deficiency include respiratory difficulty, headache, dizziness, nausea, unconsciousness or death.

Symptoms/effects after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquefied gas.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquefied gas.

Symptoms/effects after ingestion : Not a normal route of exposure. May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Foam. Dry chemical.

Unsuitable extinguishing media : Do not use carbon dioxide. Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon. Hydrogen fluoride. Carbonyl fluoride.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapours may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate sources of ignition. Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear recommended personal protective equipment.

Methods for cleaning up : Provide ventilation. Allow the residual product to evaporate.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Container may explode if heated. . Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Use only non-sparking tools. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Use only in well-ventilated areas. When using do not eat, drink or smoke.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C).

Incompatible materials : Refer to Section 10 on Incompatible Materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dust Air™
No additional information available

1,1-Difluoroethane (75-37-6)	
USA - AIHA - Occupational Exposure Limits	
WEEL TWA	1000 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Wear suitable gloves

Eye protection:
Safety glasses or goggles are recommended when using product.

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Aerosol.
Colour	:	Colourless
Odour	:	Odourless
Odour threshold	:	No data available
pH	:	No data available
Melting point	:	< -75 °C (< -99 °F)
Freezing point	:	No data available
Boiling point	:	-25 °C (-13 °F)
Flash point	:	< -75 °C (< -99 °F)
Relative evaporation rate (butylacetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	> 1
Flammability	:	Extremely flammable aerosol.
Vapour pressure	:	4.31 bar @ 21 °C (70 °F), 64 psig; 11.7 bar @ 54 °C (129 °F), 178 psig
Relative vapour density at 20°C / 68 °F	:	2.28 @ 21 °C (70 °F)

Relative density	:	0.91 g/ml @ 21 °C (70 °F); 0.809 g/ml @ 54 °C (130 °F)
Solubility	:	Water: 0.008 % @ 21 °C (70 °F)
Partition coefficient n-octanol/water	:	1.43
Auto-ignition temperature	:	> 462 °C (> 863 °F)
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	< 0.6 cP @ 21 °C (70 °F)
Explosive limits	:	3.9 – 16.9 vol % @ 25 °C (77 °F)
Explosive properties	:	No data available
Oxidising properties	:	No data available

9.2. Other information

VOC content	:	100 %
Gas group	:	Press. Gas (Liq.)

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Incompatible materials. Sources of ignition. Direct sunlight. Moisture.

10.5. Incompatible materials

Acids. Strong oxidizing agents. Alkali metals.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Hydrogen fluoride. Carbonyl fluoride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified.
Acute toxicity (dermal)	:	Not classified.
Acute toxicity (inhalation)	:	Not classified.

1,1-Difluoroethane (75-37-6)	
LC50 inhalation rat	437500 ppm/4h
ATE CA (Gases)	437500 ppmv/4h

Skin corrosion/irritation	:	Not classified.
Serious eye damage/irritation	:	Not classified.
Respiratory or skin sensitisation	:	Not classified.
Germ cell mutagenicity	:	Not classified.

Carcinogenicity : Not classified.
Reproductive toxicity : Not classified.
STOT-single exposure : Not classified.
STOT-repeated exposure : Not classified.
Aspiration hazard : Not classified.

Dust Air™	
Vaporizer	Aerosol

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Symptoms/effects after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquefied gas.
Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquefied gas.
Symptoms/effects after ingestion : Not a normal route of exposure. May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

1,1-Difluoroethane (75-37-6)	
LC50 - Fish [1]	295.783 mg/l Test organisms (species): other:Fish
EC50 - Other aquatic organisms [1]	146.695 mg/l Test organisms (species): other:Daphnid
LC50 - Fish [2]	719.611 mg/l Test organisms (species):

12.2. Persistence and degradability

Dust Air™	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Dust Air™	
Partition coefficient n-octanol/water	1.43
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

DOT NA No : UN1030
UN-No. (TDG) : UN1030
UN-No. (IMDG) : 1030
UN-No. (IATA) : 1030

14.2. UN proper shipping name

Proper Shipping Name (DOT) : 1,1-Difluoroethane (Limited quantity)
Proper Shipping Name (TDG) : 1,1-DIFLUOROETHANE (LIMITED QUANTITY)
Proper Shipping Name (IMDG) : 1,1-DIFLUOROETHANE (REFRIGERANT GAS R 152a) (LTD QTY)
Proper Shipping Name (IATA) : 1,1-Difluoroethane (Limited quantity)

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Limited quantity
Hazard labels (DOT) : 2.1

TDG

Transport hazard class(es) (TDG) : Limited quantity
Hazard labels (TDG) : 2.1

IMDG

Transport hazard class(es) (IMDG) : Limited quantity
Danger labels (IMDG) : 2.1

IATA

Transport hazard class(es) (IATA) : Limited quantity for air transport
Danger labels (IATA) : 2.1

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1 Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
1,1-Difluoroethane	75-37-6	Present	Active	

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015
Revision date : 04/22/2024
Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com

Full text of H-statements	
Flam. Aerosol 1	Flammable aerosols, Category 1

Full text of H-statements	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Simple Asphy	Simple Asphyxiant

SDS HazCom 2012 - WHMIS 2015 (Nexreg) 2023