Eco-Blast Air Duster Net Wt. 8 oz.

1 Identification

GHS Product Identifier

Product Form: Aerosol

Trade Name: Eco-Blast Duster Net Wt. 8 oz.

Product Numbers: 80-1207
CAS No.: 75-37-6
Formula: C2H2F4

Other means of identification

Synonyms: 1,1-difluoroethane / 1,1-difluoroethane (refrigerant gas R 152a)

Recomended use of the chemical and restriction on use

Use of Substance/Mixture Aerosol Duster; Canned Air

Supplier's details

Kimball Midwest 4800 Roberts Rd.

Columbus, OH 43228 USA

Tel.: 800-233-1294

Emergency phone number

CHEM TEL 24 Hour Emergency Response USA & Canada 800-233-1294

2 Hazard(s) identification

Classification of the substance or mixture

GHS Categories

Criteria	Category	Signal Word	Pictograms
Gas Under Pressure Liquefied Gas	3	Warning	Gas Cylinder
Flammable Aerosol	2	Danger	Flammable

GHS label elements

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements above. The labeling above applies to industrial/professional products.

Danger



Hazard statements (GHS-US): H223 - Flammable aerosol

H280 - Contains gas under pressure; may explode if heated

Precautionary statements (GHS-US): P410+P403 - Protect from sunlight. Store in a well-ventilated place

P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P211: Do not spray on an open flame or other ignition source. P251 - Pressurized container: Do not pierce or burn, even after use. P410+P412 - Protect from sunlight. Do not expose to temperatures

exceeding 50 °C/122 °F

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Other hazards which do not result in classification

HCS2012 Criteria	Hazard Statements / Precautionary Statement	Signal Word	Pictograms
Simple Asphyxiant	May displace oxygen and cause rapid suffocation.	Warning	Not applicable

3 Composition/information on ingredients

Description CAS Number % Classification (GHS-US)

1,1-Difluoroethane, liquefied, under pressure

Note: Commonly referred to as HFC-152a

75-37-6 >99 Liquefied gas, H280

4 First-aid measures

Description of necessary first-aid measures

First-aid measures general: Check the vital functions. Unconscious: maintain adequate airway

and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition:

doctor/hospital. Never give alcohol to drink.

First-aid measures after inhalation: Remove the victim into fresh air. Respiratory problems: consult a

doctor/medical service.

First-aid measures after skin contact: Rinse with water. In case of frostbites: Wash immediately with lots

of water (15 minutes)/shower. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with

sterile bandage. Consult a doctor/medical service.

First-aid measures after eye contact: Rinse with water. Do not apply neutralizing agents. Take victim to

an ophthalmologist if irritation persists.

First-aid measures after ingestion: Not applicable.

Most important symptoms/effects, acute and delayed

Symptoms/injuries: Contains refrigerated gas; may cause cryogenic burns or injury. Not

expected to present a significant hazard under anticipated

conditions of normal use.

Symptoms/injuries after inhalation: Exposure to high concentrations: Dizziness. Slight irritation.

Headache. Nausea. Vomiting.

Symptoms/injuries after skin contact: Frostbites.

Symptoms/injuries after eye contact : No data available. Symptoms/injuries after ingestion: Not applicable. Chronic symptoms: No effects known.

5 Fire-fighting measures

Auto-ignition Temperature >454 °C [849 °F] Flash Point -50 °C [-58 °F] LFL [LEL]^{a)} 3.5% UFL [UEL] 16.9%

Suitable extinguishing media

Response: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.

Use water spray to cool containers.

Specific hazards arising from the chemical

Combustion: Produces CO, CO2, halogenated compounds, and hydrogen fluorides.

General: Vapors may accumulate in low-lying areas. Aerosol container may erupt with

force at temperatures above 50 °C [122 °F]. Produces irritating and toxic fumes

in fires or in contact with hot surfaces.

Special protective actions for fire-fighters

Fire-Fighter: Wear self-contained breathing apparatus for fire fighting

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing the mist/vapors. For very large spills, wear self-contained breathing apparatus before approaching the spill. Wear cold-insulating clothing and gloves.

Environmental precautions

Prevent spreading in sewers.

Methods and materials for containment and cleaning up

For aerosol can size spill, leave the immediate spill area to avoid contact with the liquid. No containment required under normal circumstances. If it can safely be done, extinguish open flames or remove high temperature sources to avoid producing toxic decomposition products. Cleaning Ensure adequate ventilation, especially in low or enclosed areas. The product will turn gaseous and be dispersed.

7 Handling and storage

Precautions for safe handling

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not get

in eye, on skin, or on clothing. Do not breathe mist/vapors/spray. In cases of inadequate ventilation wear respiratory protection. Do not pierce or burn, even

after use.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Handling: Keep upright when in use. Do NOT spray when container is more than 45 degrees

off vertical or inverted. Wear cold-insulating gloves if exposure to liquid or aerosol

jet is likely. Wear protective gloves/eye protection.

Recommendation: Wear cold-insulating gloves if exposure to liquid or aerosol

jet is likely.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].

Recommendation: Keep in well ventilated room.

8 Exposure controls/personal protection

Control parameters

Chemical Name	Country	Long Term Exposure Limits	Short Term Exposure Limits
		(PEL)	(STEL)
1,1-difluoroethane	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada	Not established	Not established

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH2, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from by RTECS database1 of the Canadian Centre for Occupational Health and Safety (CCOHS) a data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

Appropriate engineering controls

Local exhaust ventilation, vent hoods.

Individual protection measures

Avoid all unnecessary exposure. Gloves. Safety glasses.





Materials for protective clothing: GIVE GOOD RESISTANCE: butyl rubber. leather. neoprene.

polyethylene. PVC.

Hand protection: Insulated gloves.

Eye protection: Safety glasses.

Skin and body protection: Protective clothing.

Respiratory protection: High vapor/gas concentration: self-contained respirator. Maintain

oxygen levels above 19.5% in the workplace. Use supplied air respiratory

protection if oxygen levels are below 19.5% or during

emergency response to a release of this product. Wear appropriate mask.

Other information: Do not eat, drink or smoke during use.

9 Physical and chemical properties

Physical and chemical properties

Physical State: Gas

Appearance: Liquefied gas

Molecular Mass: 66.05 g/mol

Color: Colorless

Odor: Mild odor. Slight Ether-like odor.

Odor threshold: No data available

pH: No data available

Relative evaporation rate

(butyl acetate = 1): No data available

Melting point: -117 °C

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Freezing point: No data available

Boiling point: -25 °C

Flash point: < -50 °C

Critical temperature: 114 °C

Auto-ignition temperature: 455 °C

Decomposition temperature: No data available

Flammability (solid, gas): Flammable

Vapor pressure: 5100 hPa

Vapor pressure at 50 °C: 11700 hPA

Critical pressure: 44960 hPa

Relative vapor density at 20 °C: 2.3

Relative density: 1.0 (-25 °C)

Specific gravity / density: 1004 kg/m³ (-25 °C)

Solubility: Poorly soluble in water. Soluble in organic solvents.

Water: 0.54 g/100ml (0 °C)

Log Pow: 0.75 (Experimental value)

Log Kow: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: 0.37 Pa.s (-31°C)

Explosive properties: No data available

Oxidizing properties: No data available

Explosive limits: 4 - 19 vol %

112 - 518 g/m³

10 Stability and reactivity

Reactivity

On heating/burning: release of toxic and corrosive gases/vapor e.g.: hydrofluoric acid, carbonylfluoride. Reacts violently with (strong) oxidizers.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Not established.

Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

Incompatible materials

Strong acids. Strong bases.

Hazardous decomposition products

Toxic fume. Carbon monoxide. Carbon dioxide.

11 Toxicological information

Information on the likely routes of exposure

Eyes, inhalation, and skin

Symptoms related to the physical, chemical and toxicological characteristics

Eyes: See skin summary.

Skin: Contact with the liquid may cause frostbite due to heat lost caused by rapid evaporation.

Aerosol jet can reach sub-zero temperatures; exposure to jet can lead to frostbites.

Inhalation: Extreme exposure due to misuse and inhalation abuse may cause central nervous system

depression and irregular heart beat.

Ingestion: Highly unlikely under normal use and conditions. See inhalation and skin summaries.

Chronic: Not applicable

Numerical measures of toxicity (such as acute toxicity estimates)

Chemical Name	LD50	LD50	LC50	TCLo
	oral	dermal	inhalation	inhalation
1,1-difluoroethane	Not available	Not available	1,500 g/m ³	Not available
			4 h Rat	

Skin corrosion/irritationNone known or expected.

Serious eye damage/irritation None known or expected.

Sensitization None known or expected.

(allergic reactions)

Carcinogenicity Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP

(risk of cancer)

Mutagenicity No data available

(risk of heritable genetic effects)

Reproductive Toxicity No data available

(risk to sex functions)

Teratogenicity No data available

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(risk of fetus malformation)

STOT-single exposure Data does not give rise to classification. At extreme doses, can affect the central

nervous system and cardiovascular systems by inhalation. CNS anesthetic effects are based on rat studies with TCLo of 25 pph. Cardiac effects are based on exposure of ≥150,000 ppm in study on dogs. Misuse and inhalation abuse can lead to dizziness, confusion, drowsiness, unconsciousness, irregular heartbeat,

heart thumping, apprehension, and weakness.

STOT-repeated exposure No data available

Aspiration hazard Not applicable

12 Ecological information

Toxicity

Ecology - air: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Included in the list of substances which may contribute to the greenhouse

effect (Regulation (EC) No 842/2006). TA-LuftKlasse 5.2.5.

Ecology - water: Mild water pollutant (surface water). No data available on ecotoxicity.

Persistence and degradability

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Persistence and degradability Biodegradability in water: no data available.

Bioaccumulative potential

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Log Pow 0.75 (Experimental value)

Bioaccumulative potential Low potential for bioaccumulation (Log Kow< 4).

Mobility in soil

No additional information available

Other adverse effects

Other information: Avoid release to the environment.

13 Disposal considerations

Disposal methods

Dispose of contents in accordance with all local, regional, national, and international regulations.

14 Transport information

UN Number

In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground): UN1030, 1,1-Difluoroethane, 2.1, Level 1 Aerosol, Limited Quantity

ICAO/IATA (air): UN1950, Aerosols, Flammable, 2.1, Limited Quantity

IMO/IMDG (water): UN1950, Aerosols, Flammable, 2.1, Limited Quantity

Special Provisions: DOT-SP 11516: In accordance with this special permit, this product is not

subject to labeling requirements unless offered for transportation by air. This product is not subject to placarding requirements. Outside packaging must be marked with proper shipping description and 'DOT-SP 11516'

UN Proper Shipping Name

DOT Proper Shipping Name: 1,1-Difluoroethane

DOT Special Provisions (49 CFR 172.102): DOT-SP 11516: In accordance with this special permit, this product is not

subject to labeling requirements unless offered for transportation by air. This product is not subject to placarding requirements. Outside packaging must be marked with proper shipping description and 'DOT-SP 11516'

DOT Packaging Exceptions (49 CFR 173.xxx): 306

DOT Packaging Non Bulk (49 CFR 173.xxx): 304

DOT Packaging Bulk (49 CFR 173.xxx): 314;315

Transport hazard class(es)

Other information: No supplementary information available.

Special transport precautions: DOT-SP 11516: In accordance with this special permit, this product is

not subject to labeling requirements unless offered for transportation by air. This product is not subject to placarding requirements. Outside packaging must be marked with proper shipping description and 'DOT-

SP 11516'.

Overland transport

Class (ADR) 2 - Gases

Hazard identification number (Kemler No.): 23 Classification code (ADR): 2F

Additional Information: Certificate No. SU 11078 allows this product to be shipped in accordance

with DOT-SP 11516.

Air transport

DOT Quantity Limitations Passenger

aircraft/rail: (49 CFR 173.27) Forbidden

DOT Quantity Limitations Cargo aircraft only: 150 kg

(49 CFR 175.75)

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

US Federal Regulations

R152A (75-37-6)

SARA Section 311/312 Hazard Classes: Fire hazard

Sudden release of pressure hazard Immediate (acute) health hazard

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International Regulations

Canada R152A (75-37-6)

Products conform to the Canadian Consumer Labeling Regulations.

16 Other information

Other information

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