
Section 1: Identification

1.1 Product Identifier

Product Name : Fellowes Duster 10 oz.
Fellowes Item Number : 9963201

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the substance/mixture : Aerosol Duster

1.3 Details of the Supplier of the Safety Data Sheet

Company : Fellowes, Inc
Address : 1789 Norwood Avenue
Itasca, IL 60143-1095
USA
Telephone : 630.893.1600
Fax : 630.893.1648
Toll Free : 800.945.4545
Website : fellowes.com

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

Classification (GHS-US)
Liquefied Gas H280
Full Text of H-phrases: see section 16

2.2 Label Elements**GHS-US Labeling**

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) : Warning
Hazard Statements (GHS-US) : H280 – Contains gas under pressure; may explode if heated
Precautionary Statements (GHS-US) : P410+P403 – Protect from sunlight. Store in a well-ventilated place
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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2.3 Other Hazards

Other hazards not contributing to the classification

: In accordance with aerosol flammability definitions, this product is non-flammable. However, the pressurized liquefied gas is extremely flammable. Using this product in an upside-down position, or shaking while using, can cause liquid product to be expelled. The information pertaining to flash point below applies to the liquefied gas. Contact with liquid may cause cold burns/frostbite. Contains gas under pressure; may explode if heated. Asphyxiant in high concentrations. Intentional misuse and inhalation abuse may cause cardiac or central nervous systems effects. Warning. May cause frostbite in contact with skin. (Liquid form can be ejected if the aerosol can is not held upright during use.) Warning.

SECTION 3: Composition / Information On Ingredients

3.1 Substance

Name : 1,1-Difluoroethane, Liquefied, Under Pressure

CAS No. : 75-37-6

EINECS No. : 200-866-1

Name	Product Identifier	Maximum Weight	Classification (GHS-US)
1,1-Difluoroethane, Liquefied, Under Pressure (Main constituent)	(CAS No.) 75-37-6	>99	Liquefied Gas, H280

SECTION 4: First-Aid Measures

4.1 Description of 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 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. Take victim to a doctor if irritation persists. In case of frostbites: Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface >10%: take victim to hospital.

First-aid measures after eye contact : Rise with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation Persists.

First-aid measures after ingestion : Not applicable.



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4.2 Most Important Symptoms and Effects, Both 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. Coordination disorders. Disturbance of consciousness. Disturbance of heart rate.
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.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

No additional information available

SECTION 5: Fire-Fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media	: Water spray. BC powder. Carbon dioxide.
Unsuitable extinguishing media	: No unsuitable extinguishing media known.

5.2 Special Hazards Arising From the Substance or Mixture

Fire hazard	: DIRECT FIRE HAZARD. Extremely flammable. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD. May build up electrostatic charges: risk of ignition. May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.
Explosion hazard	: DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD. Heat may cause pressure rise in tanks/drums: explosion risk. may be ignited by sparks.
Reactivity	: On heating/burning: release of toxic and corrosive gases/vapors e.g.: hydrofluoric acid, carbonylfluoride). Reacts violently with (strong) oxidizers.

5.3 Advice For Firefighters

Firefighting instructions	If no hazard for/from the surroundings: controlled burning. If hazardous substances are nearby: consider extinguishment. Extinguish only if gas supply/leak can be shut afterwards. Cool tanks/drums with water spray/remove them into safety. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion. Dilute toxic gases with water spray.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
Other information	: NFPA Aerosol Level 1.



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SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Remove ignition source.

6.1.1 For Non-Emergency Personnel

Protective equipment : Insulating gloves. Protective goggles. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus. See "Material-Handling" to select protective clothing.

Emergency procedures : Keep upwind. Mark the danger area. Consider evacuation. Seal off low-laying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Sparks and explosion proof appliances and lighting equipment. Avoid ingress of water in the containers. Wash contaminated clothes.

6.1.2 For Emergency Responders

Protective Equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2 Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and Materials for containment and Clean Up

For containment : Contain released substance, pump into suitable containers. Consult "Material-Handling" to select material of container. Plug the leak, cut off the supply. Dam up the liquid spill. Tip the container on one side to stop the leakage. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapour with water curtain. Provide equipment/receptacles with earthing. Do not spray on unheated tank walls. Do not use compressed air for pumping over spills.

Methods for cleaning up : Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. See "Material-Handling" for suitable container materials. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4 Reference to other sections

See heading 8. Exposure controls and personal protection.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Additional hazards when processed : Pressurized container: Do not pierce or burn, even after use.

Precautions for safe handling : Comply with the legal requirements. Clean contaminated clothing. Handle uncleaned empty containers As full ones. Thoroughly clean/dry the installation before use. Do not use compressed air for pumping over. Use spark/explosion proof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe normal hygiene standards. Measure the concentration in the air regularly. Measure the oxygen concentration in the air. Work under local exhaust/ventilation.

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Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild Soap and water before eating, drinking or smoking and when leaving work. Wash affected areas thoroughly after handling. Wash contaminated clothing before reuse.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.

Storage conditions : Do not expose to temperatures exceeding 50° C / 122° F. Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : <50° C

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources. Ignition sources.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents.

Storage area : Ventilation at floor level. Fireproof storeroom. Provide for an automatic sprinkler system. Provide for a tub to collect spills. Provide the tank with earthing. Keep out of direct sunlight. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: with pressure relief valve, clean, correctly labelled, meet the legal requirements.

Packaging materials : SUITABLE MATERIAL: Steel. Stainless steel. Monel steel. Lead. Aluminum. Copper. Tin.

7.3 Special End Use(s)

Follow label directions.

SECTION 8: Exposure Controls / Personal Protection

8.1 Exposure Controls

Appropriate engineering controls : Local exhaust ventilation, vent hoods.

Personal protective equipment : Gloves. Safety glasses. Avoid all unnecessary exposure.



Materials for protective clothing : GIVE GOOD RESISTANCE: Butyl rubber. Leather. Neoprene. Polyethylene. PVC.

Hand protection : Insulated gloves.

Eye protection : Safety glasses. Chemical goggles or safety glasses.

Skin and body protection : Protective clothing. Wear suitable protective clothing.



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Respiratory protection	: High vapour/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.

SECTION 9: Physical and Chemical Properties

9.1 Information On Basic Physical and Chemical Properties

Physical state	: Gas
Appearance	: Liquefied Gas
Molecular mass	: 66.05 g/mol
Color	: Colorless
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -117° C
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)	: No data available
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/m ³ @ -25° C
Solubility	: Poorly soluble in water. Soluble in organic solvents. Water: 0.54 g/100ml @ 0° C
Log Pow	: 0.75 (Experimental value)



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Log Kow	: No date available
Viscosity, kinematic	: No date available
Viscosity, dynamic	: 0.37 Pa.s @ -31° C
Explosive properties	: No date available
Oxidizing properties	: No date available
Explosive limits	: 4 – 19 vol % 112 – 518 g/m ³

9.2 Other information

VOC content	: 0%
Gas group	: Liquefied gas
Other properties	: Gas/vapour heavier than air at 20° C. May generate electrostatic charges.

SECTION 10: Stability and Reactivity

10.1 Reactivity

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

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of Hazardous Reactions

Not established.

10.4 Conditions To Avoid

Direct sunlight. Extremely high or low temperatures.

10.5 Incompatible Materials

Strong acids. Strong bases.

10.6 Hazardous Decomposition Products

Toxic fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological Information

11.1 Information On Toxicological Effects

Acute toxicity	: Not classified
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FELLOWES AIR DUSTER 10 OZ. (f) 75-37-6	
LC50 inhalation rat (mg/l)	176 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	>437500 ppm/4h Mortality in 2/6 at 43.75% and 1/6 at 38.3%. At \geq 17.52% lethargy, labored breathing, reduced responsiveness to sound were observed. At 6.64% only hyperaemia and shallow breathing were observed.

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Dizziness. Slight irritation. Headache. Nausea. Vomiting. Coordination disorders. Disturbance of consciousness. Disturbance of heart rate.
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

SECTION 12: Ecological Information

12.1 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-Luft Klasse 5.2.5.
Ecology - water	: Mild water pollutant (surface water). No data available on ecotoxicity.

12.2 Persistence and Degradability

FELLOWES AIR DUSTER 10 OZ. (75-37-6)	
Persistence and degradability	Biodegradable in water: No data available.



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12.3 Bioaccumulative Potential

FELLOWES AIR DUSTER 10 OZ. (75-37-6)	
Log Pow	0.75 (Experimental value)
Bioaccumulative	Low potential for bioaccumulation (Low Kow < 4).

12.4 Mobility In Soil

No additional information available.

12.5 Other Adverse Effects

Other information : Avoid release to the environment.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Waste disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Refer to manufacturer/supplier for information on recovery/recycling.

Additional information : LWCA (the Netherlands): KGA category 06. Hazardous waste according to Directive 2008/98/EC

Ecology – waste materials : Avoid release to the environment.

SECTION 14: Transport Information

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

US DOT (ground): UN1030, 1,1-Difluoroethane, R152A Flammable, 2.1

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'

14.2 UN Proper Shipping Name

Proper Shipping Name (DOT) : 1,1-Difluoroethane, R152A Flammable

Department of Transportation (DOT) : 2.1 – Class 2.1 – Flammable gas 49 CFR 173.115
Hazard Classes

Hazard Labels (DOT) : 2.1 – Flammable gas

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DOT Special Provisions (49 CFR 172.102) : DOT-SP 10232: 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

14.3 Additional Information

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

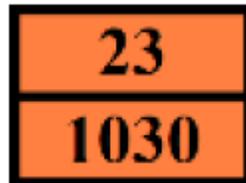
Hazard identification number (Kemler No.) : 23

Classification code (ADR) : 2F

Hazard label (ADR) : 2.1 – Flammable gases



Orange plates



Tunnel restriction code (ADR) : B/D

Transport By Sea

DOT Vessel Stowage Location : B – (i) The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) “On deck only” on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.



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DOT Vessel Stowage Other : 40 – Stow “clear of living quarters”

EmS-No. (1) : F-D

EmS-No. (2) : S-U

Air Transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : Forbidden

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg

SECTION 15: Regulatory Information

15.1 US Federal Regulations

FELLOWES AIR DUSTER 10 OZ. (75-37-6)

Listed on the United States TSCA (Toxic Substance Control Act) inventory

SARA Section 311/312 Hazard Classes	Fire hazard Sudden release of pressure hazard Immediate (acute) health hazard
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15.2 International Regulations

Canada

FELLOWES AIR DUSTER 10 OZ. (75-37-6)

WHMIS Classification	Class A – Compressed Gas Class B Division 5 – Flammable Aerosol
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EU – Regulations

No additional information available

Classification According to Regulation (EC) No. 1272/2008 [CLP]

Flam. Gas 1 H220

Press. Gas

Full text of H-phases: see section 16

Classification According to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F+; R12

Full text of R-phase: see section 16

15.2.2 National Regulations

No additional information available

15.3 US State Regulations

FELLOWES AIR DUSTER 10 OZ. (75-37-6)

State or local regulations	U.S. – New Jersey – Right to Know Hazardous Substance List U.S. – Pennsylvania – RTK (Right to Know) List U.S. – Massachusetts – Right to Know List
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SECTION 16: Other Information

Other information : None

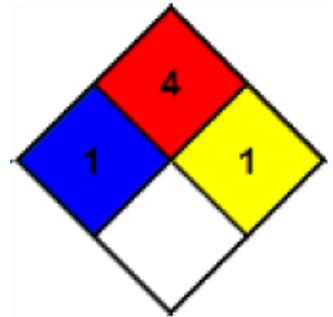
Full text of H-phases: see section 16:

Liquefied gas	Gases under pressure Liquefied gas
H280	Contains gas under pressure; may explode if heated

NFPA health hazard : 1 – Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 4 – Will rapidly or completely vaporize at normal pressure and Temperature, or is readily dispersed in air and will burn readily.

NFPA reactivity : 1 – Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

Health : 1 Slight Hazard – Irritation or minor reversible injury possible

Flammability : 4 Severe Hazard

Physical : 1 Slight Hazard

Personal Protection : B

The information contained in the Safety Data Sheet is believed to be correct and used as a guide.