



1. Chemical Product and Company Identification

Product Trade Name: “Dymel” 152a
Chemical Family: Ethane, 1,1-Difluoro
FSP Model No: DPS, DPSX, DPSR, DPSRX DPSXL, DPSXLX DSXLP, DPSJB, DPSJC, DPSJBX, DPSMB, DPSMW, DPSJMB, DPSJMB2, DPSXL12, DSXLPW, DCPJB, FGS, FGSR, CDS, CDSR

Chemical Manufacturer: Dupont
Address: 1007 Market Street
 Wilmington, DE 19898 USA
Phone: 1-800-441-7515
Product Manufacturer: Falcon Safety Products, Inc.
Address: 25 Chubb Way
 Branchburg, NJ 08876
Phone: 1-908-707-4900

Emergency Telephone USA: CHEMTREC (800) 424-9300

2. Composition/Information on Ingredients

Chemical Name	Wt.%Range	TLV Units
1,1-Difluoroethane CAS #75-37-6	100%	

3. Hazard Identification

Potential Health Effects:

Inhalation of high concentrations of vapor is harmful and may cause heart irregularities, unconsciousness, or death.

Intentional misuse or deliberate inhalation may cause death without warning. Vapor reduces oxygen available for breathing and is heavier than air. Liquid contact can cause frostbite.

Human Health Effects:

Contact with the liquid may cause frostbite. Overexposure by inhalation may include nonspecific discomfort, such as nausea, headache, or weakness; or temporary nervous system depression with anesthetic effects such as dizziness, headache, confusion, incoordination and loss of consciousness. Higher exposures (>20%) may cause temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath; or temporary alteration of the heart’s electrical activity with irregular pulse, palpitations, or inadequate circulation, abnormal kidney function as detected by laboratory tests. Overexposure may be fatal due to displacement of oxygen.

Medical Conditions Aggravated by Exposure:

Individual with preexisting diseases of the central nervous or cardiovascular system may have increased susceptibility to the toxicity of excessive exposures.

4. First Aid Measures

Inhalation: If high concentrations are inhaled, immediately remove to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

Skin Contact: Promptly flush skin with water until all chemical is removed. If there is evidence of frostbite, bathe (do not rub) with lukewarm (not hot) water. If water is not available, cover with a clean, soft cloth or similar covering. Get medical attention if symptoms persist.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes (in case of frostbit water should be lukewarm, not hot) lifting eyelids occasionally to facilitate irrigation. Get medical attention if symptoms persist.

Ingestion: Ingestion is not considered a potential route of exposure.

Notes to Physicians:

Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution only in situations of emergency life support.

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5. Firefighting Measures

Flash Point: <-50°C (<-58°F).

Autoignition Temperature: 454°C (849°F)

Flammable Limits in Air: LEL/UEL: 3.9-16.9 (% by volume)

Fire and Explosion Hazards: Aerosol cans may erupt with force at temperatures above 49° C (120° F)

Extinguishing Media: Water Spray, Water fog, Dry Chemical, Carbon dioxide. “Alcohol” foam.

Special Firefighting Procedures:

Cool cans with water spray. Keep can cool with water spray Self-contained breathing apparatus (SCBA) is required if containers rupture and contents are released under fire conditions.

National Fire Protection Association (NFPA 30B)

Level 1 Aerosols (lowest flammability rating)

Consumer Products Safety Commission

(CPSC 1500.3(c)(6).16CFR) - Not flammable

6. Accidental Release Measures

Spill or Leak: Although the chances of a large spill or leak is unlikely in aerosol containers, in the event of such an occurrence, evacuate area. Protected personnel should remove ignition sources and shut off fire sources. Provide ventilation.

7. Handling and Storage

Avoid breathing vapors or mist. Keep containers closed. Use only with adequate ventilation. Avoid repeated or prolonged contact with eyes, skin or clothing. Wash thoroughly after handling. Do not store in direct sunlight. Store in cool dry place, away from heat, sparks or flames which may generate toxic decomposition products. Vapors are heavy and may concentrate in low poorly ventilated areas.

8. Exposure Controls/Personal Protection

Respiratory Protection: Use only with adequate ventilation. Keep container closed. Use approved NIOSH self-contained or supplied air respirators for emergencies and in situations where air may be displaced by vapors.

Eye Protection: Use chemical protective safety glasses.

Protective Clothing: Where there is potential for skin contact, use appropriate impervious gloves, apron, pants and jacket.

Exposure Guidelines: Applicable Exposure Limits.

Difluoroethane:

PEL (OSHA) None Established

TLV (ACGIH) None Established

AEL (DuPont) 1000 ppm, 8 Hr. TWA

WEEL (AIHA) 1000 ppm, 8 Hr. TWA

NFPA, NPCA-HIMIS RATING:

Health

Flammability

Reactivity

Personal Protection rating to be supplied by user depending on use conditions.

9. Physical and Chemical Properties

Physical Form: Liquefied Gas

Odor: Slight Ethereal

Boiling Point: -25°C (-13°F)

pH: Not Applicable

Solubility in Water: 0.28 WT% @ 25°C (77°F) and 87 psia.

Specific Gravity: 0.909

% Volatile by Weight: 100

Vapor Pressure: 87 psia at 25°C (77°F)

Density: .90 g/cc at 25°C (77°F) - Liquid

Vapor Density (air=1): 2.4 (Air = 1.0) at 25°C (77°F)

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10. Reactivity

Chemical Stability: Material is stable. However, avoid open flames and high temperatures.
Hazardous Polymerization: Will not occur.
Incompatibilities: Incompatible with alkali or alkaline earth metal.
Decomposition Products: Decomposition products are hazardous. This material can be decomposed by **high temperatures** forming hydrofluoric acid and possibly carbonyl fluoride

11. Toxicological Information

Carcinogenicity: The compound is untested for skin or eye irritation, and for animal sensitization. Effects in animals from single, high exposure by inhalation include labored breathing, lung irritation, lethargy, incoordination, and loss of consciousness. Cardiac sensitization occurred in dogs exposed to a concentration of 150,000 ppm in air and given an intravenous epinephrine challenge. Effects of repeated exposure include increased urinary fluorides, reduced kidney weight, and reversible kidney changes. The effects of a single, high oral dose include weight loss and lethargy. Tests in animals demonstrate no carcinogenic activity or developmental effects. Tests in animals for reproductive effects have not been performed. This compound does not produce genetic damage in bacterial cell cultures but has not been tested in animals.

12. Ecological Information

Aquatic Toxicity:
Not Available

13. Disposal Considerations

Waste Disposal: Reclaim by distillation, incinerate, or remove to a permitted waste facility. Comply with Federal, State, and local regulations.

This material may be a RCRA Hazardous waste upon disposal due to the ignitability characteristic.

14. Transportation Information

Transport for Aerosol Packaging:

Ground Transport: Consumer Commodity ORM-D Authorization: per DOT-E-11516.

Air Transport: (Difluoroethane), UN1030, Class 2.1 NOTE: Exemption copy required with shipping papers. Hazard Label: Flammable Gas

NOTE: Falcon Safety Products has been granted a DOT exemption that allows this product to be shipped similar to a Consumer Commodity (ORM-D). A copy of the DOT exemption can be obtained by calling Falcon Safety Products, Inc at 908-707-4900.

15. Regulatory Information

Section 313 Supplier Information:

This material contains the following toxic chemicals subject to the emergency reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40 CFR 372:

CAS#	Chemical Name	% by Weight
-	none	-

This information must be included in all MSDSs that are copied and distributed for this material.

California V.O.C. Data: This product contains 0 grams total VOC per liter.

Title III Hazard Communications Sections 311, 312

Acute	Yes
Chronic	No
Fire	Yes
Reactivity	No
Pressure	Yes

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16. Other Information

NFPA, NPCA-HMIS

NPCA-HMIS Rating

Health : 1

Flammability : 4

Reactivity : 1

Personal Protection rating to be supplied by user depending on use

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Signature

Dermot McLeer

Printed Name

Technical Manager

Title

10/06/04

Revision Date