



“DYMEL” 152a

(“DYMEL” is a registered trademark of DuPont)

SECTION I – CHEMICAL PRODUCT AND COMPANY INFORMATION

Trade Name: “Dymel” 152a
Chemical Name: Ethane, 1,1-Difluoro
FSPID: Front 152a
Model No: DPS, DPSR, DPSXL, DSXLP, DPSJB, DPSJC, DPSMB, DPSMW, DPSJMB, DPSJMB2, DPSXL12, DSXLPW, DCPJB, FGS, FGSR, CDS, CDSR
Emergency Phone: Chemtrec 1-800-424-9300

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

SECTION II – COMPOSITION/INFORMATION ON INGREDIENTS

Material	CAS #	%
1,1-Difluoroethane	75-37-6	100%

SECTION III - HAZARDS 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.

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

SECTION IV - FIRST AID

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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SECTION V - FIRE FIGHTING MEASURES

Flash Point	Flammable Limits in Air % by Volume		
	LEL	UEL	Autoignition
<-50°C (<-58°F)	3.9	16.9	454°C (849°F)

- Fire and Explosion Hazards:**
- Aerosol cans may erupt with force at temperatures above 49° C (120° F)
- Note:
- Extinguishing Media**
- Water Spray, Water fog, Dry Chemical, Carbon dioxide. "Alcohol" foam.
- Special Fire Fighting 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

SECTION VI - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	-25°C (-13°F)	Odor	Slight ethereal
Vapor Pressure	87 psia at 25°C (77°F)	Form	Gas
Vapor Density	2.4 (Air = 1.0) at 25°C (77°F)	Color	Clear, Colorless
% Volatiles	100 WT %	Density	.90 g/cc at 25°C (77°F) - Liquid
Solubility in Water	0.28 WT% @ 25°C (77°F) and 87 psia		

SECTION VII – STABILITY AND REACTIVITY

Chemical Stability - Material is stable. However, avoid open flames and high temperatures.

Incompatibility with Other Materials - Incompatible with alkali or alkaline earth metal.

Decomposition - Decomposition products are hazardous. This material can be decomposed by **high temperatures** forming hydrofluoric acid and possibly carbonyl fluoride.

Polymerization - Polymerization will not occur.

SECTION VIII – TOXICOLOGICAL INFORMATION

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.

SECTION IX – 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.

SECTION X - TRANSPORTATION INFORMATION**Shipping Information**

Proper Shipping Name	Hazard Class	UN No.	DOT/IMO Label
DIFLUOROETHANE	2.1	1030	FLAMMABLE GAS
Shipping Paper Information	Mark Packages		Placarding
None Required	DIFLUOROETHANE, UN 1030, DOT-E11516		None Required

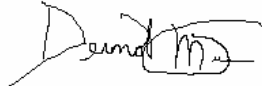
NOTE: Falcon Safety Products has been granted a DOT exemption that allows this product to be shipped similar to a Consumer Commodity (ORM-D). A copy of the DOT exemption can be obtained by calling Falcon Safety Products, Inc at 908-707-4900.

SECTION XI – DISCLAIMER

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SECTION XII – PREPARATION INFORMATION

	Dermot McLeer	Technical Manager	01/17/03
Signature	Printed Name	Title	Revision Date

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