

402B

(AEROSOL)

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Identifier:** 402B**Other Means of Identification:** Super Duster™ 152**Related Part #** 402B-285G, 402B-400G, 402BP-340G, 402BP-450G, 853000, 402B-340GLD, 402B-450GLD

### Recommended Use and Restriction on Use

**Use:** Aerosol duster**Uses Advised Against:** Avoid spraying can in an inverted position.

### Details of Manufacturer or Importer

#### Manufacturer

MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA

☎ +1-800-340-0772

FAX +1-800-340-0773

E-MAIL [sds@mgchemicals.com](mailto:sds@mgchemicals.com)WEB [www.mgchemicals.com](http://www.mgchemicals.com)

☎ +1-905-331-1396

E-MAIL [support@mgchemicals.com](mailto:support@mgchemicals.com)E-MAIL (Competent Person): [sds@mgchemicals.com](mailto:sds@mgchemicals.com)

### Emergency Phone Number


**For hazardous material incidents ONLY** (leaks, spills, fires, exposures or accidents)  
USA or CANADA—Call Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962**  
(Service access code: 335388)**For emergencies involving the transport of dangerous goods;** 24/7 service  
CANADA—Call CANUTEC collect at **+1-613-996-6666** or **\*666** on cellular phones

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**Section 2: Hazard(s) Identification**
**Classification of Hazardous Chemical**
**GHS Categories**

Criteria	Category	Signal Word	Pictograms
Flammable Aerosol	2	Warning	Flame

*Note 1:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories do not allow comparisons between classes.

**Label Elements**

<b>Signal Word</b>	<b>WARNING</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H223: Flammable aerosol
<b>Prevention</b>	<b>Precautionary Statements</b>
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on open flames or other ignition source.
P251	Pressurized Container: Do not pierce or burn, even after use. HOLD CAN UPRIGHT to avoid ejection of liquid stream during use.

*Section continued on the next page*

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*Continued...*

<b>Storage</b>	<b>Precautionary Statements</b>
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F]. Store in well-ventilated places.

**Hazards Not Otherwise Classified**

<b>HCS2012 Criteria</b>	<b>Hazard Statements/Precautionary Statement</b>	<b>Signal Word</b>	<b>Pictograms</b>
Simple Asphyxiant	May displace oxygen and cause rapid suffocation.	Warning	None
<b>Other Criteria</b>	<b>Hazard Statements/Precautionary Statement</b>	<b>Signal Word</b>	<b>Pictograms</b>
Specific flammability	Liquid form is flammable. (Liquid form can be ejected if the aerosol can is not held upright during use.)	Warning	None
Frostbite	Skin contact with liquid or aerosol jet may lead to frostbite	Warning	None
Intentional Overexposure	Intentional misuse and inhalation abuse may cause cardiac or central nervous systems effects.	Warning	None

**Section 3: Composition/Information on Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>%(weight)</b>
75-37-6	1,1-difluoroethane	>99%

*Note:* Commonly referred to as HFC-152a

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**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P336+P315
<b>Immediate Symptoms</b>	<i>frostbite, cold burns</i>
<b>Response</b>	Rinse cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  If frostbite occurs: Thaw frosted parts with lukewarm water. Do not use hot water. Do not rub affected area. Get immediate medical attention.
<b>IF ON SKIN</b>	P302 + P353, P336 + P315
<b>Immediate Symptoms</b>	<i>frostbite, cold burns</i>
<b>Response</b>	Rinse with lukewarm water.  If frostbite occurs: Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical attention.
<b>IF INHALED</b>	P304 + P340, P312
<b>Immediate Symptoms</b>	<i>signs of extreme exposure include dizziness, drowsiness, heart thumping</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing.  If feeling unwell: Call a POISON CENTRE or doctor.
<b>IF SWALLOWED</b>	P301 + P330, P336 + P315 <i>(Not a likely route of exposure under normal use)</i>
<b>Immediate Symptoms</b>	<i>frostbite (mouth), irritation</i>
<b>Response</b>	Rinse with lukewarm water.  If frostbite occurs: Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical attention.

**Advise to Physician**

Avoid giving catecholamine drugs (such as epinephrine) due to possible cardiac disturbances. Treat symptomatically.

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**(AEROSOL)****Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.  Use water spray to cool containers.
<b>Specific Hazards</b>	The vapors are heavier than air and may displace oxygen in low-lying areas creating a suffocation hazard.  Aerosol container may erupt with force at temperatures above 50 °C [122 °F].  The liquid form is flammable.  Produces irritating and toxic fumes in fires or in contact with hot surfaces.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ), hydrofluoric acid (HF), and may produce carbonyl fluorides.
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection recommendations in Section 8.
<b>Precautions for Response</b>	For aerosol-can spills in confined spaces or low lying areas, leave the immediate spill area.  For very large spills, wear self-contained breathing apparatus before approaching the spill. Wear cold-insulating clothing and gloves.  If it can safely be done, extinguish open flames or remove high temperature sources to avoid producing toxic decomposition products.
<b>Environmental Precautions</b>	Not applicable
<b>Containment Methods</b>	No containment required under normal circumstances.
<b>Cleaning Methods</b>	Ensure adequate ventilation, especially in low or enclosed areas. Liquid spills will turn gaseous and disperse in the local atmosphere.
<b>Disposal Methods</b>	Dispose of spill waste according to Section 13.

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**Section 7: Handling and Storage**
**Prevention**

Keep out of reach of children.

Avoid direct skin or eye contact with liquid or aerosol jet.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Do not use in confined and poorly ventilated area. In cases of inadequate ventilation, wear respiratory protection.

Do not pierce or burn, even after use.

**Handling**

HOLD CAN UPRIGHT to avoid ejection of liquid stream during 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 eye protection.

**Storage**

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

**Section 8: Exposure Controls/Personal Protection**
**Substances with Occupational Exposure Limit Values**

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

*Note:* The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS database<sup>2</sup> and from suppliers' SDSs were also consulted. Short term exposure limits (STEL) are for 15 min and long-term permissible exposure limits (PEL) for 8 h.

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**(AEROSOL)****Engineering Controls****Ventilation**

Normal ventilation is generally adequate, except in enclosed or low-lying area.

Keep airborne concentrations below 0.4% [4 000 ppm] (10% of the lower explosive limit (See Section 9)). Make sure the oxygen content is not enriched.

**Personal Protective Equipment****Eye protection**

Wear appropriate protective eyeglasses or chemical safety goggles.

**RECOMMENDATION:** Use safety glasses with lateral protection (side shields).

**Skin Protection**

Wear appropriate protective clothing to prevent skin contact.

**RECOMMENDATION:** Use cold insulating gloves if contact with liquid jet is likely.

**Respiratory Protection**

For extreme exposures, use full-face, self-contained breathing apparatus or supplied by air.

**General Hygiene Considerations**

Not applicable

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**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquefied gas, in aerosol format	<b>Lower Flammability Limit</b>	3.9%
<b>Appearance</b>	Colorless	<b>Upper Flammability Limit</b>	16.9%
<b>Odor</b>	Slight, ether-like	<b>Vapor Pressure @20 °C <sup>a)</sup></b>	607 kPa [88.0 lb/in <sup>2</sup> ]
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	2.3 (Air =1)
<b>pH</b>	Not available	<b>Relative Density @21 °C</b>	0.91
<b>Freezing/Melting Point</b>	-117 °C [-179 °F]	<b>Solubility in Water</b>	0.27 g/100 mL
<b>Initial Boiling Point</b>	-25 °C [-13 °F]	<b>Partition Coefficient n-octanol/water<sup>-b)</sup></b>	0.75
<b>Flash Point</b>	-50 °C [-58 °F]	<b>Auto-ignition Temperature</b>	454 °C [849 °F]
<b>Evaporation Rate</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Flammability</b>	Inflammable	<b>Viscosity @40 °C</b>	Not applicable

*Note:* Literature values are used.

a) gauge pressure

b) Octanol-water LogP value

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Ignition sources, temperatures above 50 °C [122 °F], and incompatible substances.
<b>Incompatibilities</b>	Alkali or alkali earth metals, powdered metals, powdered metal salts
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5



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**Section 11: Toxicological Information**
**Summary of Effects and Symptoms by Routes of Exposure**

<b>Eyes</b>	See skin summary.
<b>Skin</b>	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.
<b>Inhalation</b>	Extreme exposure due to misuse and inhalation abuse may cause central nervous system depression and irregular heartbeat.
<b>Ingestion</b>	See inhalation and skin summaries.
<b>Chronic</b>	Not applicable

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
1,1-difluoroethane	Not available	Not available	>437 500 ppm 4 h Rat

*Note:* Toxicity data from the RTECS<sup>2</sup> and ECHA databases were consulted. The data from supplier SDSs were also consulted.

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met.
<b>Sensitization</b> (allergic reactions)	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b> (risk of cancer)	Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP
<b>Mutagenicity</b> (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b> (risk to sex functions)	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b> (risk of fetus malformation)	Based on available data, the classification criteria are not met.

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<b>STOT-single exposure</b>	Based on available data the classification criteria are not met. 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 $\geq 150\ 000$ ppm in study on dogs. Misuse and inhalation abuse can lead to dizziness, confusion, drowsiness, unconsciousness, irregular heartbeat, heart thumping, apprehension, and weakness.
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

## Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

The 1,1-difluoroethane substance is not classifiable as an environmental toxicant (with minimal LC50 96 h of 296 mg/L for unspecified fish; 147 mg/L 24 h Daphnia magna (water flea); 48 mg/L calculated for algae).

### Acute Ecotoxicity

Available toxicity data does not meet classification thresholds

### Chronic Ecotoxicity

Not data available

### Biodegradability

Not data available

### Other Effects

#### Global Warming Potential

The 100 years global warming potential is 120.

#### Volatile Organic Compound

VOC exempt compound by EPA and CEPA regulations

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**Section 13: Disposal Information**

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

**Section 14: Transport Information****Ground**

**Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations);  
**USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**

**DOT-SP 11516**  
INSIDE CONTAINERS  
COMPLY WITH PRESCRIBED  
SPECIFICATIONS

USA Only  
(*other jurisdictions differ*)  
**UN number:** UN1030  
**Shipping Name:**  
1,1-DIFLUOROETHANE  
**Class:** 2.1  
**Packing Group:** Not applicable  
**Marine Pollutant:** No

**CANADA—Permit for Equivalent Level of Safety:** Refer to TC-SU 13908.

**USA—Special Provision:** Refer to DOT-SP 11516 for requirements and exceptions regarding shipping paper, labeling, and markings.

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**Air**

**Refer to ICAO-IATA Dangerous Goods Regulations.**

<p>Forbidden</p>	<p>Forbidden  <b>UN number:</b> UN1030  <b>Shipping Name:</b>            1,1-DIFLUOROETHANE  <b>Class:</b> 2.1  <b>Packing Group:</b> Not applicable  <b>Marine Pollutant:</b> No</p>
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**Sea**

**Refer to IMDG Dangerous Goods Regulations.**

<p><b>DOT-SP 11516</b>            INSIDE CONTAINERS            COMPLY WITH            PRESCRIBED            SPECIFICATIONS</p>	<p>USA only  <i>(other jurisdictions differ)</i>  <b>UN number:</b> UN1030  <b>Shipping Name:</b>            1,1-DIFLUOROETHANE  <b>Class:</b> 2.1  <b>Packing Group:</b> Not applicable            Marine Pollutant: No</p>
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**CANADA—Permit for Equivalent Level of Safety:** Refer to TC-SU 13908.

**USA—Special Provision:** Refer to DOT-SP 11516 for requirements and exceptions regarding shipping paper, labeling, and markings.

**Note: Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.**

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**Section 15: Regulatory Information**

**Canada**

**Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL/NDSL.

**Hazardous Products Act (R.S.C., 1985, c. H-3)**

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

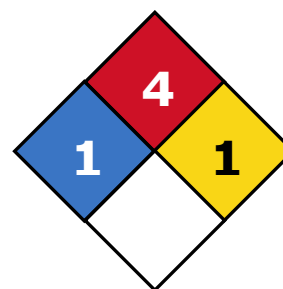
**USA**

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	<b>* 1</b>
<b>FLAMMABILITY:</b>	<b>4</b>
<b>PHYSICAL HAZARD:</b>	<b>1</b>
<b>PERSONAL PROTECTION:</b>	

**NFPA® 704 CODES <sup>a)</sup>**



*Approximate HMIS and NFPA Risk Ratings Legend:*

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

a) Liquid classification; for aerosols, NFPA 30B flammability rating is 1.

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**CAA** (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

**EPCRA** (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product does not contain substances which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

**TSCA** (Toxic Substances Control Act of 1976, USA)

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All substances are TSCA listed.

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**402B****(AEROSOL)****California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity.)

This product does not contain any of the listed substances.

**Europe****RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

**WEEE** (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment and is therefore not governed by this regulation.

**Section 16: Other Information****SDS Prepared by** MG Chemicals' Regulatory Department**Date of Revision** 02 May 2024**Supersedes** 20 March 2024**Reason for Changes:** Update to transport information.**Reference**

1) ACGIH 2024 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents &amp; biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2024).

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**402B****(AEROSOL)****Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
IARC	International Agency for Research on Cancer
NOELR	No observable effect loading ratio
NTP	National Toxicology Program
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
Qty/Pkg	Quantity/Package
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Compound

**Technical Queries** Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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