

SAI Global File #004008

402B-AEROSOL

Burlington, Ontario, Canada

SUPER DUSTERTM 152

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: Super Duster[™] 152

SDS Code: 402B-Aerosol

Related Part # 402B-285G, 402B-400G

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

a +1-800-340-0772 Fax +1-800-340-0773 E-MAIL support@mqchemicals.com **WEB** www.mgchemicals.com

MG Chemicals (Head Office)

9347-193 Street

Surrey, British Columbia V4N 4E7

CANADA

+1-905-331-1396 FAX +1-905-331-2682 E-MAIL info@mgchemicals.com

E-MAIL (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents) USA or CANADA—Call CHEMTREC at +1-800-424-9300

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
Gas Under Pressure	Liquefied Gas	Warning	Gas Cylinder

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

Signal Word	WARNING
Pictograms	Hazard Statements
	H223: Flammable aerosol
	H280: Contains gas under pressure; may explode if heated
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P210	Keep away from heat/sparks/open flames/hot surfaces. 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.

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

Hazards Not Otherwise Classified

HCS2012 Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Simple Asphyxiant	May displace oxygen and cause rapid suffocation.	Warning	Not applicable
Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Specific flammability	Liquid form is flammable. (Liquid form can be ejected if the aerosol can is not held upright during use.)	Warning	Not applicable
Frostbite	Skin contact with liquid or aerosol jet may lead to frostbite	Warning	Not applicable
Intentional Overexposure	Intentional misuse and inhalation abuse may cause cardiac or central nervous systems effects.	Warning	Not applicable

Section 3: Composition/Information on Ingredients

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

Note: Commonly referred to as HFC-152a

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Section 4: First-Aid Mea	sures
Exposure Condition	GHS Code: Precautionary Statement
IF IN EYES	P305 + P351 + P338, P336+P315
Immediate Symptoms	frostbite, cold burns
Response	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.
IF ON SKIN	P302 + P353, P336 + P315
Immediate Symptoms	frostbite, cold burns
Response	Rinse with lukewarm water.
	If frostbite occurs: Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical attention.
IF INHALED	P304 + P340, P312
Immediate Symptoms	signs of extreme exposure include dizziness, drowsiness, heart thumping
Response	Remove person to fresh air and keep comfortable for breathing.
	If feeling unwell: Call a POISON CENTRE/doctor.
IF SWALLOWED	P301 + P330, P336 + P315 (Not a likely route of exposure under normal use)
Immediate Symptoms	frostbite (mouth), irritation
Response	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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Section 5: Fire-Fighting Measures

Extinguishing Media In case of fire: Use dry chemical, carbon dioxide, chemical

> foam, or water spray to extinguish. Use water spray to cool containers.

Specific Hazards 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.

Combustion Products Produces carbon oxides (CO, CO₂), hydrofluoric acid (HF), and

may produce carbonyl fluorides.

Wear self-contained breathing apparatus and full fire-fighting Fire-Fighter

turn-out gear.

Section 6: Accidental Release Measures

Personal Protection See personal protection recommendations in Section 8.

Precautions for Response

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.

Environmental Precautions

Not applicable

Containment Methods No containment required under normal circumstances.

Ensure adequate ventilation, especially in low or enclosed Cleaning Methods

areas. Liquid spills will turn gaseous and disperse in the local

atmosphere.

Disposal Methods 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/sparks/open flames/hot surfaces. No

smoking.

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 ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS database² 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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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

Physical State	Liquefied gas, in aerosol format	Lower Flammability Limit	3.9%
Appearance	Colorless	Upper Flammability Limit	16.9%
Odor	Slight, ether-like	Vapor Pressure @20 °C ^{a)}	607 kPa [88.0 lb/in²]
Odor Threshold	Not available	Vapor Density	2.3 (Air =1)
рH	Not available	Specific Gravity @21 °C	0.91
Freezing/Melting Point	-117 °C [-179 °F]	Solubility in Water	0.27 g / 100 mL
Boiling Point	-25 °C [-13 °F]	Partition Coefficient ^{b)}	0.75
Flash Point	-50 °C [-58 °F]	Auto-ignition Temperature	454 °C [849 °F]
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability	Inflammable	Viscosity @40 °C	Not applicable

Note: Literature values are used.

a) gauge pressure

b) Octanol-water LogP value

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Ignition sources, temperatures above 50 °C [122 °F], and incompatible substances.
Incompatibilities	Alkali or alkali earth metals, powdered metals, powdered metal salts
Polymerization	Will not occur
Decomposition	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

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

heartbeat.

Ingestion See inhalation and skin summaries.

Chronic Not applicable

Acute Toxicity (Lethal Exposure Concentrations)

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

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier (M)SDSs were also consulted.

Skin corrosion/irritation Based on available data, the classification criteria are not

met.

Serious eye

Based on available data, the classification criteria are not damage/irritation

Sensitization Based on available data, the classification criteria are not

(allergic reactions) met.

Carcinogenicity Not classified or listed as a carcinogen by IARC, ACGIH,

(risk of cancer) CA Prop 65, or NTP

Mutagenicity Based on available data, the classification criteria are not

(risk of heritable genetic

effects)

met.

Reproductive Toxicity

(risk to sex functions)

Based on available data, the classification criteria are not

met.

Teratogenicity (risk of fetus malformation)

Based on available data, the classification criteria are not

met.

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STOT-single exposure 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 ≥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 Based on available data, the classification criteria are not

met.

Aspiration hazard 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

Section 13: Disposal Information

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



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Section 14: Transport Information

Ground

Refer to USA DOT 49 CFR (Parts 100 to 185) Regulations.

USA only (other jurisdictions differ)

UN number: UN1030 Shipping Name: 1,1-DIFLUOROETHANE

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: No

USA—Special Provision: Refer to DOT-SP 11516. A copy of this special permit is required.

http://www.phmsa.dot.gov/staticfiles/PHMSA/SPA App/OfferDocuments/SP11516 2009030606.pdf

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations

Limited Quantity



Canada (excluding the USA)

REFERENCE INFORMATION ONLY

UN number: UN1950

Shipping Name: AEROSOLS, flammable

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: No

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

USA and CARGO AIRCRAFT ONLY

UN number: UN1030 **Shipping Name**: 1,1-DIFLUOROETHANE

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: No

USA—Special Provision: Refer to DOT-SP 111516. A copy of this special permit is required. http://www.phmsa.dot.gov/staticfiles/PHMSA/SPA App/OfferDocuments/SP11516 2009030606.pdf

Note: Avoid shipping by air if possible.

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Refer to ICAO-IATA Dangerous Goods Regulations.	
	Canada (Excluding the USA)
	NOT APPROVED FOR AIR TRANSPORT

Sea

Refer to IMDG Dangerous Goods Regulations.

USA only (other jurisdictions differ)

UN number: UN1030 **Shipping Name:** 1,1-DIFLUOROETHANE

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: No

USA—Special Provision: Refer to DOT-SP 111516. A copy of this special permit is required. http://www.phmsa.dot.gov/staticfiles/PHMSA/SPA App/OfferDocuments/SP11516 2009030606.pdf

Refer to IMDG Dangerous Goods Regulations.

Limited Quantity



Canada (excluding the USA)

REFERENCE INFORMATION ONLY

UN number: UN1950

Shipping Name: AEROSOLS, flammable

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: No

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

HEALTH: * 1 FLAMMABILITY: 4 **PHYSICAL HAZARD:** 1 **PERSONAL PROTECTION:**

NFPA® 704 CODES a)



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.

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)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, Sept 2, 2011 revision, USA).

This product does not contain any of the listed substances.



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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 Regulatory affairs department

Date of Revision 08 January 2018 Supersedes 05 January 2015

Reason for Changes: Classification revision in accordance with HCS 2012 and

WHMIS 2015.

Reference

1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances $\$)

Abbreviations

Abbi Evia	LIUIIS
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

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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.

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L7L 5R6 V4N 4E7

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M.G. Chemicals, Ltd. believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international

regulations.