

402A-AEROSOL

SUPER DUSTER[™] 134 Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Identifier: Super Duster[™] 134

SDS Code: 402A-Aerosol

Related Part # 402A-285G, 402AR-285G, 402A-450G

Recommended Use and Restriction on Use

Use: Aerosol duster

Uses Advised Against: Not available

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

 www.mgchemicals.com

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 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
Gas Under Pressure	Liquefied Gas	Warning	Gas Cylinder

Note: The degree of severity is ranked within each hazard class from

1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

Label Elements

Signal Word	WARNING
Pictograms	Hazard Statements
\Diamond	H280: Contains gas under pressure; may explode if heated
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, flames, and other ignition sources. No Smoking.
P251	Do not pierce or burn, even after use.
	HOLD CAN UPRIGHT to avoid ejection of liquid stream during use.
Storage	Precautionary Statements
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].

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Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Simple Asphyxiants	May displace oxygen and cause rapid suffocation.	Warning	none
Frostbite	The jet or liquid may cause frostbite in contact with skin or eyes.	Warning	none
Inhalation overexposure	Inhalation overexposure following an intentional abuse or use in confined space may cause cardiac or central nervous systems effects.	none	none

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
811-97-2	1,1,1,2-tetrafluoroethane ^{a)}	100%

a) Also known as HFC 134a

Section 4: First-Aid Measures

Exposure Condition	GHS Code/Symptoms/Precautionary Statements	
IF INHALED	P304 + P340, P312	
Immediate Symptoms	dizziness, drowsiness, heart thumping	
Response	Remove person to fresh air and keep comfortable for breathing.	
	If you feel unwell: Call a POISON CENTRE or doctor.	
IF IN EYES	P305 + P351 + P338, P336 + P315	
Immediate Symptoms	frostbite, cold burns	
Response	Rinse cautiously with 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.	

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P302 + P352, P336 + P315 frostbite, cold burns
frostbite, cold burns
IF ON SKIN: Wash with plenty of water.
If frostbite occurs: Thaw frosted parts with lukewarm water. Do not use hot water. Do not rub affected area. Get immediate medical attention.
P301 + P330, P336 + P315
frostbite (mouth)
IF SWALLOWED: Rinse mouth.
If frostbite occurs: Thaw frosted parts with lukewarm water. Do not use hot water. Do not rub affected area. Get immediate medical attention.

Medical Advice

Avoid giving catecholoamine drugs (such as epinephrine) due to possible cardiac disturbance. Treat symptomatically.

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	Aerosols containers may erupt with force at temperatures above 50 °C [122 °F].
	Produces irritating and toxic fumes in fires or in contact with hot surfaces.
	The vapors are heavier than air and may displace oxygen in low-lying areas creating a suffocation hazard.
Combustion Products	Produces carbon oxides (CO,CO $_2$), halogenated compounds, and hydrogen fluorides.
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.



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Section 6: Accidental Release Measures

Personal Protection	See personal protection recommendations in Section 8.
	For very large spills, wear self-contained breathing apparatus before approaching the spill. Wear cold-insulating clothing and gloves.
Precautions for Response	For aerosol can spills in confined or low lying space, leave the immediate spill area.
	If it can safely be done, extinguish open flames or remove high temperature sources to avoid producing toxic decomposition products.
Environmental Precautions	Not required under normal use.
Containment Methods	Not applicable
Cleaning Methods	For aerosol can spills at room temperature, the product turns gaseous and disperses in atmosphere. Ensure adequate ventilation, especially in low or enclosed areas.
Disposal Methods	Dispose of spill waste according to Section 13.

Section 7: Handling and Storage

Keep out of reach of children.
Avoid direct skin or eye contact with liquid or aerosol jet.
Avoid breathing gas or spray. In cases of inadequate ventilation wear respiratory protection.
Do not pierce or burn, even after use.
Wear cold-insulating gloves if exposure to liquid or aerosol jet is likely. Wear eye protection.
Keep upright when in use to avoid liquid jet. Do NOT spray when container is inverted or more than 45 degrees off vertical.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].

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Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Chemical Name	Country/ Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
1,1,1,2- tetrafluoroethane	<i>MG Chemicals</i> ^{a)}	1 000 ppm	Not established
	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 suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) MG Chemicals recommended limit corresponding to prevalent international threshold values

Engineering Controls

VentilationKeep airborne concentrations below the occupational exposure
limits (OEL).General ventilation is adequate for normal use: keep overall

General ventilation is adequate for normal use; keep overall exposure as low as possible.

Eye protection	Wear appropriate protective eyeglasses or chemical safety goggles.
	RECOMMENDATION: Ensure that glasses have side shields for lateral protection.
Skin Protection	If exposure to the jet or liquid is likely, wear cold-insulating gloves to protect the skin against frostbites.
Respiratory Protection	For extreme exposures, use self-contained breathing apparatus or supplied by air.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

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Physical State	Liquified gas,	Lower Flammability	Not
	in aerosol format	Limit	applicable
Appearance	Colorless	Upper Flammability Limit	Not applicable
Odor	Slight, ether-like	Vapor Pressure @25 °C	630 kPa [4 725 mmHg]
Odor Threshold	Not available	Vapor Density	3.5 (Air =1)
рН	Not Available	Relative Density @25 °C	1.21
Freezing/Melting	-101 °C	Solubility in	0.15% (wt)
Point	[-150 °F]	Water	
Initial Boiling	-26.2°C	Partition Coefficient	1.06 ^{a)}
Point ^{a)}	[-15.2 °F]	n-octanol/water	
Flash Point	None	Auto-ignition	750 °C
	detected	Temperature	[1 382 °F]
Evaporation	≥1	Decomposition	Not
Rate	(Ether = 1)	Temperature	available
Flammability	Non	Viscosity	Not
	Flammable	@40 °C	available

Note: Literature values are used. a) Octanol-water LogP value

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures.
Conditions to Avoid	Temperatures above 50 °C [122 °F], open flames, and incompatible substances
Incompatibilities	Strong oxidizing agents, alkali or alkali earth metals, powdered aluminum, zinc, magnesium, and beryllium
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 symptoms.

Skin	Contact with the liquid may cause frostbite due to heat lost caused by
	rapid evaporation. Exposure to the jet can also lead to frostbites,
	because it can reach -55 °C [-67 °F].

- **Inhalation** Extreme exposure may cause central nervous system depression and irregular heart beat.
- **Ingestion** See inhalation and skin symptoms.
- **Chronic** No chronic effects known.

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
1,1,1,2-tetrafluoroethane	Not	Not	1 500 g/m³
	available	available	4 h Rat

Note: Toxicity data from the ECHA database was consulted. The data from supplier SDS were also consulted.

Other Toxicological Effects

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Sensitization (allergic reactions)	Based on available data, the classification criteria are not met.
Carcinogenicity (risk of cancer)	None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
Mutagenicity (risk of heritable genetic effects)	Based on available data, the classification criteria are not met. No mutagenic effects observed in four tests.

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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. No observed effect level (NOEL) for rabbit and rat is 40 000 ppm.
STOT-single exposure	Based on available data, the classification criteria are not met. Can affect the central nervous system and cardiovascular systems by inhalation at extreme doses that do not give rise to classification.
STOT-repeated exposure	Based on available data, the classification criteria are not met. The chronic no observed effect level is 10 000 ppm.
Aspiration hazard	Based on available data, the classification criteria are not met. The liquid content is not classifiable as an aspiration hazard of category 1 or 2.

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 (<u>http://echa.europa.eu</u>), and other reliable sources.

The 1,1,1,2-tetrafluoroethane substance is not classifiable as an environmental toxicant.

Acute Ecotoxicity

Based on available data, the classification criteria are not met.

Chronic Ecotoxicity

Based on available data, the classification criteria are not met.

Biodegradability

No data available

Other Effects

Global Warming Potential

The 100 years global warming potential is 1430.

VOC (Volatile Organic Compounds) exempted substance according to the US (EPA) and Canadian (CEPA) authorities.

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

USA 402A-285G, 402AR-285G, 402A-450G Limited Quantity ORM-D Consumer Commodity

USA—Special Provision: Refer to DOT-SP 10232. A copy of this special permit is required. https://www.mgchemicals.com/downloads/compliance/Permit Offer SP10232.pdf

Refer to TDG (Canadian Transportation of Dangerous Goods regulations) Regulations.	
Canada (Excluding USA)	
402A-285G, 402AR-285G, 402A-450G Limited Quantity	
CANADA— Container meets TC-2R s	pecifications.

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Air

Refer to ICAO-IATA Dangerous Goods Regulations.	
USA	
402A-285G, 402AR-285G, 402A-450G	FOR REFERENCE ONLY
Limited Quantity	UN number: UN3159
ORM-D	Shipping Name: 1,1,1,2-Tetrafluoroethane
Consumer	Class: 2.2
Commodity	Packing Group: Not applicable
	Marine Pollutant: No
USA —Special Provision: Refer to DOT-SP 10232. A copy of this special permit is required.	

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Note: Avoid shipping by air if possible.

Refer to ICAO-IATA Dangerous Goods Regulations.	
Canada (Excluding USA)	
402A-285G, 402AR-285G, 402A-450G	FOR REFERENCE ONLY
Limited Quantity	UN number: UN1950 Shipping Name: AEROSOLS, non- flammable Class: 2.2 Packing Group: Not applicable Marine Pollutant: No
CANADA— Container meets TC-2R s	specifications.

Note: Avoid shipping by air if possible.

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Sea

Refer to IMDG Regulations.	
USA	
402A-285G, 402AR-285G, 402A-450G	FOR REFERENCE ONLY
Limited Quantity	UN number: UN3159
	Shipping Name: 1,1,1,2-
	Tetrafluoroethane
	Class: 2.2
	Packing Group: Not applicable
	Marine Pollutant: No
USA —Special Provision: Refer to DOT-SP 10232. A copy of this special permit is required.	
https://www.mgchemicals.com/downloads/compliance/Permit Offer SP10232.pdf	

Refer to IMDG Regulations. Canada (Excluding USA) 402A-285G, 402AR-285G, 402A-450G Limited Quantity Imited Quantity

CANADA— Container meets TC-2R specifications.

Note: Shipper must be appropriately <u>trained and certified</u> before involvement with the transport of dangerous goods.

Section 15: Regulatory Information

Canada

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

All hazardous ingredients are listed on the DSL.

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.

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USA

Other Classifications

HMIS® RATING

HEALTH:	*	1
FLAMMABILITY:		0
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

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

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 contains 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, USA).

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.

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Section	16: Othe	r Information
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SDS Prepared by	MG Chemicals' Regulatory Department
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Date of Revision01 December 2023Output

Supersedes07 December 2021

Reason for Changes: Changes to classification and transport section.

Reference

1) ACGIH 2023 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 (2023).

Abbreviations

- ACGIH American Conference of Governmental Industrial Hygienists (USA)
- ECHA European Chemicals Agency
- EU European Union
- EC50 Half maximal effective concentration
- EL50 Half maximal effective loading
- 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
- SDS Safety Data Sheet
- STEL Short-Term Exposure Limit
- TCLo Lowest published toxic concentration
- TWA Time Weighted Average
- VOC Volatile Organic Content

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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 <u>www.mgchemicals.com</u>.

Email: support@mgchemicals.com

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