

**SUPER DUSTER 134****402A**

# Safety Data Sheet

## Section 1: Product and Company Identification

### Product Identifier and Other Means of Identification

**Product Name:** Super Duster 134**MSDS Code:** 402A-Aerosol**Related Part #:** 402A-140G, 402A-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

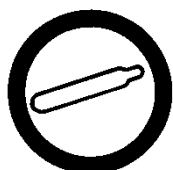
MG Chemicals (Head Office)  
9347-193 Street  
Surrey, British Columbia V4N 4E7  
CANADA

**☎** 1-800-340-0772**☎** 1-905-331-1396**FAX** 1-800-340-0773**FAX** 1-905-331-2682**E-MAIL:** [support@mgchemicals.com](mailto:support@mgchemicals.com)**E-MAIL:** [info@mgchemicals.com](mailto:info@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.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 CHEMTREC ☎: **1-800-424-9300**

**For emergencies involving dangerous goods;** Collect 24/7  
CANADA: Call CANUTEC ☎: **1-613-996-6666** or **\*666** on cellular phones

**SUPER DUSTER 134**
**402A**
**Section 2: Hazards Identification**
**Classification of Hazardous Chemical**
**WHMIS Classification**


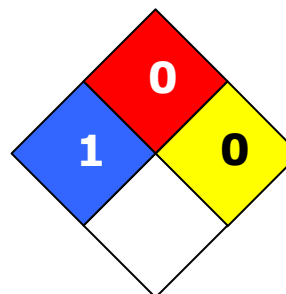
A – Aerosol Container

**GHS Categories**

Criteria	Category	Signal Word	Pictograms
Gas under pressure                      Liquefied gas	3	Warning	

**Other Classifications**
**HMIS® RATING**


<b>HEALTH:</b>	<b>1</b>
<b>FLAMMABILITY:</b>	<b>0</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

**NFPA® 704 CODES**

*Approximate HMIS and NFPA Risk Ratings Legend:*

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

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**Label Elements**

<b>Signal Word</b>	<b>WARNING</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H280: Contains gas under pressure; may explode if heated
	<b>Precautionary Statements</b>
<b>Prevention</b>	P251: Do not pierce or burn, even after use. HOLD CAN UPRIGHT to avoid ejection of liquid stream during use.
<b>Storage</b>	P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].

**Hazards Not Otherwise Classified**

May cause frostbite in contact with skin. (Liquid form can be ejected if the aerosol can is not held upright during use.) Warning

Intentional misuse and inhalation abuse may cause cardiac or central nervous systems effects. Warning

**Section 3: Hazardous Ingredients**

CAS #	Chemical Name	Wt%
811-97-2	1,1,1,2-tetrafluoroethane	>99%

Note: Commonly referred to as HFC 134a

**SUPER DUSTER 134****402A****Section 4: First Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF IN EYES</b>	P305, P351, P338, P310
<b>Immediate Symptoms</b>	<i>frostbite</i>
<b>Response</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>If eye irritation persists</b>	Get medical advice/attention
<b>IF ON SKIN</b>	P302, P352, P310
<b>Immediate Symptoms</b>	<i>frostbite</i>
<b>Response</b>	Wash with plenty of water. Do not remove clothes.
<b>If skin irritation occurs</b>	Get medical advice/attention
<b>IF INHALED</b>	P304, P340
<b>Immediate Symptoms</b>	<i>dizziness, drowsiness, heart thumping, lightheadedness</i>
<b>Response</b>	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.
<b>If feeling unwell</b>	P310: Get medical advice/attention
<b>IF SWALLOWED</b>	P301, P330, P331, P310
<b>Immediate Symptoms</b>	<i>frostbite (mouth), irritation</i>
<b>Response</b>	Rinse mouth. Do NOT induce vomiting.
<b>If feeling unwell</b>	Get medical advice/attention

**SUPER DUSTER 134****402A****Section 5: Fire Fighting Measures**

<b>Auto-ignition Temperature</b>	>750 °C [797 °F]	<b>Flash Point</b>	Not applicable	<b>LFL [LEL]<sup>a)</sup> UFL [UEL]</b>	Not applicable
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<b>In case of fire</b>	P370, P378
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<b>Response</b>	Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish. Use water spray to cool containers.
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<b>Combustion Products</b>	Produces CO, CO <sub>2</sub> , halogenated compounds, and hydrogen fluorides
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<b>Fire-Fighter</b>	Wear self-contained breathing apparatus for fire fighting
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<b>General Information</b>	Vapors may accumulate in low-lying areas. Aerosol container may erupt with force at temperatures above 50 °C [122 °F]. Produces irritating and toxic fumes in fires or in contact with hot surfaces.
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a) LF[E]L = Lower Flammability [or Explosion] Limit (in volume %);

UF[E]L = Upper Flammability [or Explosion] Limit (in volume %)

**Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See Section 8. Avoid breathing the mist/vapors. For very large spills, wear self-contained breathing apparatus before approaching the spill. Wear cold-insulating clothing and gloves.
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<b>Containment</b>	In case of large scale spills, evacuate personnel to safe areas. Ensure adequate ventilation.
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<b>Cleaning</b>	For aerosol can spill sizes, let product turn gaseous and wait for it to disperse in atmosphere through the ventilation.
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<b>Disposal</b>	Dispose of spill waste according to Section 13.
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**SUPER DUSTER 134****402A****Section 7: Handling and Storage**

<b>Prevention</b>	Do not get in eye, on skin, or on clothing.  Do not breathe vapors/spray. In cases of inadequate ventilation wear respiratory protection.  Do not pierce or burn, even after use.
<b>Handling</b>	Keep upright when in use. Do NOT spray when container is more than 45 degrees off vertical or inverted.  Wear protective gloves/clothing/eye protection.  <b>RECOMMENDATION:</b> Wear cold-insulating gloves if exposure to liquid or aerosol jet is likely.
<b>Storage</b>	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F]. Keep in well ventilated room.

**Section 8: Exposure Controls/Personal Protection****Routes of Entry**

inhalation

**Substances with Occupational Exposure Limit Values**

Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
1,1,1,2-tetrafluoroethane	MG Chemicals <sup>a)</sup>	1,000 ppm	
	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada	Not established	Not established

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>2</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from by RTECS database<sup>1</sup> of the Canadian Centre for Occupational Health and Safety (CCOHS) a data 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

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**SUPER DUSTER 134****402A****Engineering Controls****Ventilation**

Keep airborne concentrations below exposure limits.

**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:** If exposure to jet or liquid is likely, use cold-insulating gloves to protect against skin.**Respiratory Protection**

In high exposure scenarios, use a full-face respirator with multipurpose combination of (US) or type AXBEK (EN 13387) to supplement engineering control. For extreme exposures, use full-face, self-contained breathing apparatus or supplied by air.

**RECOMMENDATION:** Consult your local safety supply store to ensure your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this MSDS, and that the respirator is fitted to the employee by a professional.**General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

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**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquefied gas	<b>Appearance</b>	Colorless
<b>Odor</b>	Slight, ether-like	<b>Odor Threshold</b>	Not available
<b>pH</b>	Not available	<b>Specific Gravity</b>	1.22
<b>Solubility in Water @ 25 °C</b>	0.15% (wt)	<b>Melting/Freezing Point</b>	-101 °C [-105 °F]
<b>Boiling Point</b>	-26.2°C [-15.2 °F]	<b>Evaporation Rate</b>	≥1 (Ether = 1)
<b>Flash Point</b>	Not applicable	<b>Vapor Pressure @ 25 °C</b>	630 kPa [4725 mmHg]
<b>Lower Flammability Limit</b>	Not applicable	<b>Upper Flammability Limit</b>	Not applicable
<b>Auto-ignition Temperature</b>	750 °C [1382 °F]	<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not applicable	<b>Vapor Density</b>	3.5 (Air = 1)
<b>Partition Coefficient</b>	1.06 <sup>a)</sup>		

*Note:* Literature values are used.

a) Octanol-water LogP value

**Section 10: Stability and Reactivity**

<b>Stabilities</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Ignition sources, excessive heat, and incompatible substances.
<b>Incompatibilities</b>	Strong oxidizing agents, alkali or alkali earth metals, powdered aluminum, zinc, magnesium, and beryllium
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5



**SUPER DUSTER 134****402A****Section 11: Toxicological Information****Routes of Exposure**

Eyes, inhalation, and skin

**Symptoms Summary****Eyes** See skin summary.**Skin** Contact with the liquid may cause frostbite due to heat lost caused by rapid evaporation. Aerosol jet can reach -55 °C; exposure to jet can lead to frostbites.**Inhalation** Extreme exposure may cause central nervous system depression and irregular heart beat.**Ingestion** See inhalation and skin summaries.**Chronic** None known.**Acute Toxicity (Lethal Exposure Concentrations)**

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation	TCLo inhalation
1,1,1,2-tetrafluoroethane	Not available	Not available	1,500 g/m <sup>3</sup> 4 h Rat	Not available

*Note:* Representative toxicity data from by RTECS database of the Canadian Centre for Occupational Health and Safety (CCOHS)<sup>1</sup> data from supplier MSDS were also consulted.

**Other Toxicological Effects****Skin corrosion/irritation** None known or expected.**Serious eye damage/irritation** None known or expected.**Sensitization**  
(allergic reactions) None known or expected.**Carcinogenicity**  
(risk of cancer) Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP**Mutagenicity**  
(risk of heritable genetic effects) No data available*Continued on the next page*

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<b>Reproductive Toxicity</b> (risk to sex functions)	No data available
<b>Teratogenicity</b> (risk of fetus malformation)	No data available
<b>STOT-single exposure</b>	Can affect the central nervous system and cardiovascular systems by inhalation at extreme doses that do not give rise to classification
<b>STOT-repeated exposure</b>	No data available
<b>Aspiration hazard</b>	Not applicable

**Section 12: Ecological Information**

The IMDG Code criteria and the raw-material MSDS along with supporting data for the classification of registered substances from the European Chemical Agency database (<http://echa.europa.eu>) were used.

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

**Acute Ecotoxicity**

Available toxicity data does not meet classification thresholds

**Chronic Ecotoxicity**

Not data available

**Biodegradability**

Not data available

**Global Warming Potential**

The 100 years global warming potential is 1430.

**Other Effects**

VOC exempt (0% by EPA and WHIMS guidelines)

*\*VOC = Regulated Volatile Organic Content*

**Section 13: Disposal Information**

P501: Dispose of contents in accordance with all local, regional, national, and international regulations.

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

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

**Limited Quantity**


Canada and USA

**UN number:** Not applicable

**Shipping Name:** Not applicable

**Class:** Not applicable

**Packing Group:** Not applicable

**Marine Pollutant:** No

**CANADA—Permit for Equivalent Level of Safety:** Refer to TC-SU4836.

<http://wwwapps.tc.gc.ca/wwwdocs/TDGCertificates/doc/4836-eng.doc>

**USA—Special Provision:** Refer to DOT-SP 10232. A copy of this special permit is required.

<http://www.sextoncan.com/pdf/certification/10232-2010040083-MMS.pdf>

**Air**

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

**Limited Quantity**


USA

**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.

<http://www.sextoncan.com/pdf/certification/10232-2010040083-MMS.pdf>

**Limited Quantity**


Canada and Global (Excluding USA)

**UN number:** UN1950

**Shipping Name:** AEROSOL, non-flammable

**Class:** 2.2

**Packing Group:** Not applicable

**Marine Pollutant:** No

**CANADA—Permit for Equivalent Level of Safety:** Refer to TC-SU4836.

<http://wwwapps.tc.gc.ca/wwwdocs/TDGCertificates/doc/4836-eng.doc>

*Note:* Avoid shipping by air if possible.

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**SUPER DUSTER 134****402A****Sea****Refer to ICAO-IATA Dangerous Goods Regulations.****Limited Quantity**

USA

**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.<http://www.sextoncan.com/pdf/certification/10232-2010040083-MMS.pdf>**Limited Quantity**

Canada and Global (Excluding USA)

**UN number:** UN1950**Shipping Name:** AEROSOL, non-flammable**Class:** 2.2**Packing Group:** Not applicable**Marine Pollutant:** No**CANADA—Permit for Equivalent Level of Safety:** Refer to TC-SU4836.<http://www.wapps.tc.gc.ca/wwwdocs/TDGCertificates/doc/4836-eng.doc>

**Note:** Shipper must be appropriately trained and certified 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/NDSL.

**Industry and Science Canada**

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

**Health Canada**

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

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**SUPER DUSTER 134****402A****USA****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, Sept 2, 2011 revision, USA).

This product does not contain any of the listed substances.

**Europe**

This product is not classified under the DPD regulations.

**Section 16: Other Information**

**MSDS Prepared by** Michel Hachey

**Date of Issue** 04 October 2013

**Supersedes** 16 April 2011

**Reason for Changes:** Change to GHS format

**Reference**

1) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

2) ACGIH 2013 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 (2013).

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**SUPER DUSTER 134****402A****Abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists

GHS: Globally Harmonized System of Classification of Labeling of Chemicals

LC50 Lethal Concentration 50%

LCLo Lowest published lethal concentration

LD50 Lethal Dose 50%

N/A Not Applicable

N/E Not Estimated

PEL Permissible Exposure Limit

STEL Short-Term Exposure Limit

TCLo Lowest published toxic concentration

TWA Time Weighted Average

VOC Volatile Organic Content

**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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