

# Material Safety Data Sheet

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## Section 1: Product Identification

**MSDS Code: 402A - aerosol**

**Name: Super Duster 134 and  
Super Duster 134 Plus**

**Related Part Numbers: 402A-140G; 402A-285G; 402A-450G; 402AR**

Use: For removing microscopic dust.

## Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
811-97-2	1,1,1,2 - tetrafluoroethane	>99%	1000ppm	N/e	N/e

## Section 3: Hazards Identification

**WHMIS Codes** A

**NFPA Ratings:** Health 1 Flammability 0 Reactivity 0

**HMIS Ratings:** Health 1 Flammability 0 Reactivity 0

**Eyes:** Liquid contact with eye may cause severe tissue damage because of frostbite.

**Skin:** Contact with liquid can cause frostbite.

**Inhalation:** Deliberate inhalation of high concentrations of vapor should be avoided, as it is harmful. Deliberate inhalation, may result in cardiac symptoms, unconsciousness or death. This product is not recommended for intentional misuse or deliberate inhalation because death without warning may occur. Low in toxicity in concentrations up to 40000ppm. When oxygen levels in air are reduced to 12% - 14%, symptoms of asphyxiation will occur: loss of coordination, increased pulse rate, and deeper respiration.

**Ingestion:** Aspiration hazard. May cause irritation of the digestive tract.

**Chronic:** Over exposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure.

## Section 4: First Aid Measure

**Eyes:** In event of frostbite, immediately bathe with lukewarm water. Cover and get medical attention.

**Skin:** In event of frostbite, immediately bathe with lukewarm water. Cover and get medical attention.

**Inhalation:** Immediately remove from exposure to fresh air. If breathing is difficult, give oxygen. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Get medical aid immediately

**Ingestion:** Improbable due to low boiling point (-26.5°C, -15°C).

## Section 5: Fire Fighting Measures

**Autoignition Temperature:** >750°C (1369°F)      **Flash Point:** N/a      **LEL / UEL:** N/a  
**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.  
**General Information:** This material may become flammable when mixed with air under pressure and exposed to strong ignition sources. Containers may explode in the heat of a fire.

## Section 6: Accidental Release Measures

**Spill Procedure:** Avoid breathing vapors. Ventilate area thoroughly.

## Section 7: Handling and Storage

**Handling:** Contents under pressure. Use with sufficient ventilation to keep employee exposure below recommended limits.  
**Storage:** Keep away from direct sunlight, heat, and sources of ignition. Store in a cool, dry, well-ventilated area.

## Section 8: Exposure Controls

**Routes of entry:** Eyes, inhalation, and skin.  
**Ventilation:** Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.  
**Personal Protection:** None required.

## Section 9: Physical and Chemical Properties

<b>Physical State:</b>	Aerosol	<b>Odor:</b>	Slight Ether	<b>Solubility:</b>	0.15%	<b>Evaporation Rate:</b>	1 (ether=1)
<b>Boiling Point:</b>	-26.2°C (-15.7°F)	<b>Specific Gravity:</b>	1.22	<b>Vapor Pressure:</b>	86 PSI @21°C	<b>Vapor Density:</b>	3.5 (Air=1) <b>pH:</b> 7

## Section 10: Stability and Reactivity

**Stability:** Stable at normal temperatures and pressures. Do not mix with oxygen or air above atmospheric pressure. Any source of high temperature, such as lit cigarettes, flames, or welding may yield toxic and/or corrosive decomposition products.  
**Conditions to avoid:** Temperatures over 40°C, ignition sources, and incompatible materials.  
**Incompatibilities:** Alkali and alkaline earth metals, powdered aluminum, zinc, magnesium, and beryllium.  
**Polymerization:** Will not occur.  
**Decomposition:** Halogens, halogen acids, possibly carbonyl halides.

## Section 11: Toxicological Information

**Sensitization:** (effects of repeated exposure) Cardiac sensitization occurred in dogs exposed to 80,000 ppm.  
**Carcinogenicity:** (risk of cancer) The ingredients of this product are not classified as being carcinogenic by ACGIH (American Conference of Governmental industrial Hygienists) or IARC (International Agency for Research on Cancer), not regulated as carcinogens by OSHA (Occupational Safety and Health Administration), and not listed as carcinogens by NTP (National Toxicology Program)  
**Teratogenicity:** (risk of malformation in an unborn fetus) No



**Reproductive Toxicity:** (risk of sterility) No  
**Mutagenicity:** (risk of heritable genetic effects) No  
**Lethal Exposure Concentrations:**      **Ingestion (LD50):** N/e      **Inhalation (LC50):** 500000 ppm/4h (rat)      **Skin (LD50):** N/e

## Section 12: Ecological Information

**General Information:** Avoid runoff into storms and sewers, which lead into waterways. Water runoff can cause environmental damage.

**Environmental Impact Data:** (percentage by weight)

**CFC:** 0      **HFC:** >99      **Cl.Solv:** 0      **VOC:** 0      **HCFC:** 0      **ODP:** 0

## Section 13: Disposal Information

**General Information:** Dispose of in accordance with all local, provincial, state, and federal regulations. Water runoff can cause environmental damage.

## Section 14: Transportation Information

### Ground:

Consumer Commodity, ORM-D

### Air:

**Requires DOT-E 10232 Exemption Certificate with each shipment.**

Link: [http://hazmat.dot.gov/sp\\_app/special\\_permits/docs/10000/SP10232.pdf](http://hazmat.dot.gov/sp_app/special_permits/docs/10000/SP10232.pdf)

**Shipper must be trained and certified. Refer to IATA Dangerous Goods Regulations.**

Shipping name: **Aerosols, non-flammable, in Limited Quantities**, ID/UN Number: **UN1950**, Hazard Class: **2.2**

### Sea:

**Shipper must be trained and certified. Refer to IMDG regulations.**

Shipping name: **Aerosols, non-flammable, in Limited Quantities**, ID/UN Number: **UN1950**, Hazard Class: **2.2**

## Section 15: Regulatory Information

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.**

**SARA** (Superfund Amendments and Reauthorization Act of 1986, USA, 40CFR 372.4)

None of the chemicals in this product have a reportable quantity.

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

This product does not contain any chemicals 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.

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

This product does not contain any class 1-ozone depletors.

This product does not contain any class 2-ozone depletors.

This product does not contain any chemicals listed as hazardous air pollutants.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product does not contain any chemicals listed.

**Health Canada**

Labeling and containers used in this product are listed in compliance with Consumer Chemicals and Container regulations.



**Environment Canada**

Chemicals in this product are listed on the Domestic Substances List in the Canadian Environmental Protection Act

This product does not contain any ozone depleting substances.

**Industry and Science Canada**

Labeling, product identity, net quantity declaration, minimum printing type size heights, and packaging of this product is in compliance with the Consumer Packaging and Labeling Act and Regulations. This product is not slack filled in accordance to chapter 4 prohibitions.

**RoHS** (The restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2004).

This product is RoHS compliant.

## Section 16: Other Information

**Definitions:** N/a = not applicable, n/e = not established

**Disclaimer:** This material safety data sheet is provided as an information resource only. M.G. Chemicals believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.