



Safety Data Sheet

according to WHMIS 2023 and HCS 2024

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Date of issue 03/12/2025

Version number 4.00

Revision: 03/12/2025

1 Identification

· Product identifier

· Trade name: 402A

· Other Means of Identification: Super Duster™ 134

· CAS Number:

811-97-2

· Related Part Number: 402A-Aerosol, 402A-285G, 402AR-285G, 402A-450G

· Application of the substance / the mixture Aerosol duster

· Uses advised against Not available

· Details of the supplier of the safety data sheet

Manufacturer/Supplier:

MG Chemicals (Head Office)

1210 Corporate Drive

Burlington, Ontario L7L 5R6

CANADA

+(1) 800-340-0772

+(1) 905-331-1396

info@mgchemicals.com

Distributor:

DigiKey

701 Brooks Avenue South

Thief River Falls, MN 56701

USA

+(1) 800-344-4539

· Information department: sds@mgchemicals.com

· Emergency telephone 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

2 Hazard identification

· Classification of the substance or mixture

Aerosols, Section 2.3.1 – Category 3 H229 Pressurized container: may burst if heated.

· Label elements

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms Not applicable

· Signal word Warning

· Hazard statements

H229 Pressurized container: may burst if heated.

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Precautionary statements

- P102 Keep out of reach of children.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P251 Do not pierce or burn, even after use.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

· **Additional information:** HOLD CAN UPRIGHT to avoid ejection of liquid stream during use.

Other hazards

May displace oxygen and cause rapid suffocation.
The jet or liquid may cause frostbite in contact with skin or eyes.
Inhalation overexposure following an intentional abuse or use in confined space may cause cardiac or central nervous systems effects.

3 Composition/Information on ingredients

Chemical characterization: Substances

CAS No. Description

811-97-2 1,1,1,2-tetrafluoroethane

Dangerous components:

811-97-2	1,1,1,2-tetrafluoroethane	100% w/w
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4 First-aid measures

Description of first aid measures

After inhalation:

Remove person to fresh air and keep comfortable for breathing.
If feeling unwell: Call a POISON CENTRE or doctor.

After skin contact:

If frostbite occurs: Thaw frosted parts with lukewarm water. Do not use hot water. Do not rub affected area. Get immediate medical attention.
Take off contaminated clothing and wash it before reuse.

After eye contact:

If frostbite occurs: Thaw frosted parts with lukewarm water. Do not use hot water. Do not rub affected area. Get immediate medical attention.
Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing:

Rinse mouth.
Do NOT induce vomiting.
If symptoms persist consult doctor.
If frostbite occurs: Thaw frosted parts with lukewarm water. Do not use hot water. Do not rub affected area. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

See section 11 for additional information.

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- **Indication of any immediate medical attention and special treatment needed**
Avoid giving catecholamine drugs (such as epinephrine) due to possible cardiac disturbance.
Treat symptomatically.

* 5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Aerosols containers may erupt with force at temperatures above 50 °C [122 °F].
Vapors are heavier than air. Vapors may travel to sources of ignition near the ground. They can cause flash fire or ignite explosively.
Produces irritating and toxic fumes in fires or in contact with hot surfaces.
 - **Hazardous combustion products:**
Carbon Oxides (CO_x)
Halogenated compounds
Hydrogen flourides
- **Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Remove or keep away all sources of extreme heat or open flames.
Avoid breathing mist, spray, or vapors.
For very large spills, wear self-contained breathing apparatus before approaching the spill. Wear cold-insulating clothing and gloves.
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:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
For aerosol can spills at room temperature, the product turns gaseous and disperses in atmosphere. Ensure adequate ventilation, especially in low or enclosed areas.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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7 Handling and storage

· Precautions for safe handling

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.

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.

· **Information about protection against explosions and fires:** No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurized containers.

Keep in a dry and clean area, away from incompatible substances

· **Information about storage in one common storage facility:** Not required.

· Further information about storage conditions:

Protect from heat and direct sunlight.

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

· **Specific end use(s)** See section 1.2

8 Exposure controls/ Personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

811-97-2 1,1,1,2-tetrafluoroethane

WEEL (USA) | TWA: 1000 ppm

· Additional information:

The lists that were valid during the creation were used as basis.

Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

· Exposure controls

· **Appropriate engineering controls** Keep airborne concentrations below exposure limits.

· Personal protective equipment:

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

· Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

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If exposure to the jet or liquid is likely, wear cold-insulating gloves to protect the skin against frostbites. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Wear safety glasses: EN 166

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

· Physical state	Aerosol
· Form:	Liquefied gas
· Color:	Colorless
· Odor:	Ether-like
· Odor threshold:	Not determined.
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	-26.2 °C (-15.2 °F)
· Flammability:	Not applicable.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable, as aerosol.
· Auto igniting:	Not determined
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
· Dynamic at 20 °C (68 °F):	0.22 mPas
· Solubility in / Miscibility with	
· Water at 20 °C (68 °F):	1.93 g/l
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	5,716 hPa (4.316 mm Hg)
· Vapor pressure at 50 °C (122 °F):	13.171 hPa (9.9 mm Hg)
· Relative density at 25 °C (77 °F):	1.21
· Vapor density (air=1):	3.5
· Particle characteristics	Not applicable.

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- **Other information**
 - **Important information on protection of health and environment, and on safety.**
 - **Ignition temperature:** Not determined.
 - **Danger of explosion:** Not determined.
 - **Solvent content:**
 - **Organic solvents:** Not available
 - **Evaporation rate** ≥1

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Chemically stable at normal temperatures and pressures.
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Temperatures above 50 °C, open flames, and incompatible substances
- **Incompatible materials:**
Strong oxidizing agents
alkali
alkali earth metals
powdered metals
- **Hazardous decomposition products:**
No dangerous decomposition products known.
Hazardous combustion products: see section 5.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
 - **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
 - **Sensitization:** No sensitizing effects known.
 - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 - **Carcinogenicity** Based on available data, the classification criteria are not met.
 - **Reproductive toxicity** Based on available data, the classification criteria are not met.
 - **Specific target organ toxicity - single exposure** May cause drowsiness or dizziness.
 - **Specific target organ toxicity - repeated exposure**
Based on available data, the classification criteria are not met.

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- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Summary of effects and symptoms by route of exposure**
 - **Eyes:**
Contact with the liquid may cause frostbite due to heat lost caused by rapid evaporation. Exposure to the jet can lead to frostbite.
 - **Skin:**
Contact with the liquid may cause frostbite due to heat lost caused by rapid evaporation. Exposure to the jet can lead to frostbite.
 - **Inhalation:** Extreme exposure may cause central nervous system depression and irregular heart beat.
 - **Swallowed:**
Contact with the liquid may cause frostbite due to heat lost caused by rapid evaporation. Exposure to the jet can lead to frostbite.
Extreme exposure may cause central nervous system depression and irregular heart beat.
- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
Contact with the liquid may cause frostbite due to heat lost caused by rapid evaporation. Exposure to the jet can lead to frostbite.
- **Additional toxicological information:**
 - **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)
Substance is not listed.
· NTP (National Toxicology Program)
Substance is not listed.

12 Ecological information

- **Toxicity**
 - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:** This material and its container must be disposed of as hazardous waste.

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· **Uncleaned packagings:**

· **Recommendation:**

Containers may still present a chemical hazard/ danger when empty.
Dispose of contents in accordance with all local, regional, national, and international regulations.
Where possible retain label warnings and SDS and observe all notices pertaining to the product.

14 Transport information

· UN-Number	
· DOT/TDG, IMDG, IATA	UN1950
· UN proper shipping name	
· DOT/TDG, IATA	Aerosols, non-flammable
· IMDG	AEROSOLS
· Transport hazard class(es)	
· DOT/TDG (Transport dangerous goods):	
	
· Class	2.2 Gases
· Label	2.2
· IMDG, IATA	
	
· Class	2.2 Gases
· Label	2.2
· Packing group	
· DOT/TDG, IMDG, IATA	Not applicable
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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· Transport/Additional information:



Limited Quantity

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](https://www.mgchemicals.com/downloads/compliance/Permit%20Offer%20SP10232.pdf)CANADA- Container meets TC-2R specifications.

· DOT/TDG

· Quantity limitations

On passenger aircraft/rail: 75 kg
On cargo aircraft only: 150 kg

· IMDG

- Limited quantities (LQ)
- Excepted quantities (EQ)

1L
Code: E0
Not permitted as Excepted Quantity

· Special precautions for user

- Hazard identification number (Kemler code):
- EMS Number:
- Stowage Code

Not applicable.

· Segregation Code

-
F-D,S-U
SW1 Protected from sources of heat.
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
SG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
For AEROSOLS with a capacity above 1 litre:
Segregation as for the appropriate subdivision of class 2.
For WASTE AEROSOLS:
Segregation as for the appropriate subdivision of class 2.

· UN "Model Regulation":

UN 1950 AEROSOLS, 2.2

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· OSHA Hazard Communication Standard (29 CFR Part 1900)

The safety data sheet and label comply with HCS 2024.

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

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2023.

· **Sara**

· **Section 355 (extremely hazardous substances):**

Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

· **TSCA (Toxic Substances Control Act):**

ACTIVE

· **Hazardous Air Pollutants**

Substance is not listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Carcinogenic categories**

· **TLV (Threshold Limit Value)**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

Substance is listed.

· **Canadian Non-Domestic Substances List (NDSL)**

Substance is not listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

Substance is not listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

Substance is not listed.

· **HMIS-ratings (scale 0 - 4)**

Health = * 1

Fire = 0

Reactivity = 0

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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.

* 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Regulatory department

· **Contact:** sds@mgchemicals.com

· **Version number of previous version:** 1.00

· **Date of preparation** 03/12/2025

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

· * **Data compared to the previous version altered.**

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