

Description

The 402A *Super Duster™ 134* is a pure, non-flammable duster that can be used on live electronic and electrical equipment. The duster contains pure 1,1,1,2-tetrafluoroethane (HFC 134a), which delivers a constant, high-pressure cleaning jet. The gas jet is dry, low-residue, and chemically inert, which makes it safe for cleaning electrical and electronic components.

Applications & Usages

The 402A duster is ideal for removing lint, dust, and other debris from printed circuit boards, electronic devices, and computers. It helps prevent malfunctions and lengthens component life.

It is used to clean

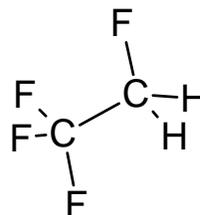
- Energized electrical and electronics boards and systems
- Computer equipment while in use
- Ventilation and heat sink systems—the removal dust from heat sinks and fans helps avoid overheating situations
- Lab equipment

Benefits and Features

- Safe for use on energized circuits
- Compatible with live electrical equipment and electronic components
- Chemically inert
- Moisture free
- Ozone safe
- Low toxicity

ATTENTION!

For energized electronic equipment use only.



Properties

| <i>Physical Properties</i> | <i>Value</i> |
|--------------------------------------|-------------------------|
| Color | Colorless |
| Odor | Very slight, ether-like |
| Molecular Weight | 102.0 g/mole |
| Boiling Point | -26.2 °C [-15.2 °F] |
| Density of Liquid @25 °C [77 °F] | 1.21 g/mL |
| Flash Point | None detected |
| Ozone Depleting Potential | 0.00 |
| GWP (100 y global warming potential) | 1 430 |
| VOC (Volatile Organic Compound) | Exempt |

| Specifications | Value |
|--|----------------|
| Purity (wt/wt) | ≥99.5% |
| Particulates/Solids | Visually clean |
| Non Absorbed Gases, maximum (vol/vol) | 1.5% |
| Non-volatile Residues, maximum (vol/vol) | ≤0.01% |
| Moisture, maximum (wt/wt) | ≤10 ppm |
| Acidity, maximum (wt/wt) | ≤1 ppm |
| Halides, maximum | ≤1 ppm |

Storage and Shelf Life

Store at around room temperature. Use within -20 to 50 °C [-4 to 122 °F] and protect from direct heat or sunlight.

Health and Safety

Please see the 402A Super Duster™ 134 **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

Environmental Impact: In the USA and Canada, this is VOC-exempt product that has very low environmental toxicity. Its 100 years global warming potential is 1 430, and its Ozone Depleting Potential is 0.00.

This product is a fluorinated gas with high global warming potentials. It is subject to various regional, national restrictions.

In the EU, it is subject to F-Gas rules.



This product meets the European Directive 2011/65/EU Annex II (ROHS); recasting 2002/95/EC.

In California, this product is restricted for use on energized electric circuits only.

Health and Safety: This product is not considered to be hazardous for human health under normal use. While this aerosol is classified as non-flammable according to Canadian and American criteria.

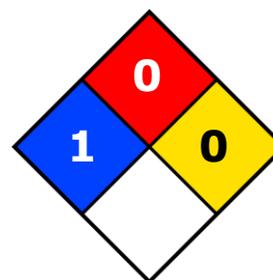
Inhalation overexposure following an intentional abuse or use in confined space may cause cardiac or central nervous systems effects.

Contact with the liquid may cause frostbite due to heat lost caused by rapid evaporation. Aerosol jet can reach sub-zero temperatures.

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)

Instructions

To remove safety tab

1. Firmly hold the head of the nozzle and trigger in place.
2. Pull tab forward on top of nozzle until it snaps off.

To clean surfaces

3. Spray directly on dusty component using bursts of spray. Clean contaminations from top to bottom to avoid redeposit of dust on clean areas.
4. Use extension tube to direct the spray in hard to reach corners.

TIP! Avoid continuous spray that causes component to reach freezing temperatures. In contact with moist air, cooled components could lead to unwanted frost formation.

Avoid touching the component directly with your hands, nozzle, or extension straw.

ATTENTION! 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.

Packaging and Supporting Products

| <i>Cat. No.</i> | <i>Packaging</i> | <i>Net Volume</i> | | <i>Net Weight</i> | | <i>Packaging Weight</i> | |
|-------------------|------------------|-------------------|------------|-------------------|---------|-------------------------|-------|
| 402A-285G | Aerosol | 236 mL | 7.98 fl oz | 285 g | 10 oz | 4.1 kg ^{a)} | 9 lb |
| 402AR-285G | Aerosol | 236 mL | 7.98 fl oz | 285 g | 10 oz | 4.1 kg ^{a)} | 9 lb |
| 402A-450G | Aerosol | 373 mL | 12.6 fl oz | 450 g | 15.8 oz | 5.0 kg ^{a)} | 11 lb |

a) Pack of 10

Technical Support

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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Warranty

M.G. Chemicals Ltd. warrants this product for 12 months from the date of purchase by the end user. *M.G. Chemicals Ltd.* makes no claims as to shelf life of this product for the warranty. The liability of *M.G. Chemicals Ltd.* whether based on its warranty, contracts, or otherwise shall in no case include incidental or consequential damage.

Disclaimer

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