

Description

The 403A *Super Cold™ 134* is a pure, non-flammable duster that is used primarily for diagnosing thermally intermittent problems with electronic devices. The cold spray contains pure 1,1,1,2-tetrafluoroethane (HFC 134a).

Applications & Usages

The 403A is also useful for protecting heat sensitive components during soldering, quickly cooling solder joints, and it can also be used to quickly remove gum and other adhesives from a variety of surfaces.

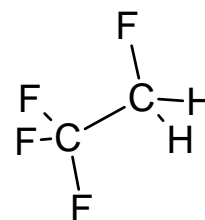
Benefits and Features

- **Safe for use on energized circuits**
- **Ozone safe**
- **Non-flammable**
- **Non-conductive**
- **Zero residue**
- **VOC exempt**
- **Suitable for Use in Food Facilities as a Non-Food Chemical**—Canadian and NFS recognition letters available on request

NOTE:

Chills down up to -50 °C (-60 °F)

Chill down temperature may not be as low as reported due to environmental and physical conditions.



Properties

<i>Physical Properties</i>	<i>Value</i>
Color	Colorless
Odor	Slight, ether-like
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

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 403A *Super Cold™ 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.

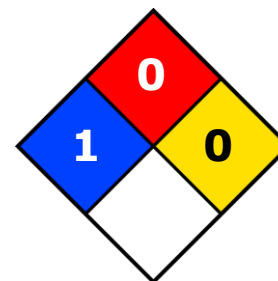
Inhalation overexposure following an intentional abuse or use in confined space may cause cardiac or central nervous systems effects.

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 check for intermittent faults

3. Spray directly on component using bursts of spray.
4. Use extension tube to direct the spray in hard to reach corners.

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

Packaging and Supporting Products

<i>Cat. No.</i>	<i>Packaging</i>	<i>Net Volume</i>		<i>Net Weight</i>		<i>Packaging Weight</i>	
403A-285G	Aerosol	236 mL	7.98 fl oz	285 g	10 oz	4.1 kg ^{a)}	9 lb
403A-400G	Aerosol	332 mL	11.2 fl oz	400 g	14.1 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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ISO 9001 Registered Quality System.
Burlington, Ontario, Canada QMI File # 004008

Super Cold™ 134 403A Technical Data Sheet

403A-Aerosol

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

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. *M.G. Chemicals Ltd.* does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.