

AEROSOLS

Formulating the Future

GC Electronics has been the primary supplier of electronics to the electrical and electronic industries since 1930. In 1997, GC upgraded its technology base to include the new environmental laws. GC has come up with a starting line-up of contact cleaners to comply with these laws; Big Bath, and Big Bath ISO. Big Bath ISO is a new contact cleaner that is non-ozone depleting and can be sold to anyone. Plus, it contains no CFC's or HCFC's and is safe on all plastics.

GC offers a complete line of chemicals for use by electronics, electrical and industrial users. In addition to offering the most up-to-date line of aerosols, GC also supplies hard-to-find non-aerosols. GC also offers a broad range of adhesives, heat sink compounds, lubricants and conformal coatings.



Air Jet®

Air Jet is formulated for the dusting and cleaning of components and equipment. Air Jet contains no flammable additives. This high pressure product is used for blowing dust, dirt and residue out of hard to reach places without scratching. Air Jet is an excellent product for both home and office use.

Applications: Computers, keyboards, printers, fax machines, audio equipment, video equipment, typewriters.

Air Jet contains no ozone depleting chemicals. Anti static formulation minimizes the risk of electrostatic damage to sensitive components.

Part No. 19-8508	8 oz. Aerosol
Part No. 19-8475-10	10 oz. Aerosol
Part No. 19-8475	12 oz. Aerosol
Part No. 19-8475-SF	12 oz. Anti-Static Aerosol



Freeze Mist

Freeze Mist is a refrigerant spray used to locate thermal intermittents in electronic components such as capacitors, resistors and semi-conductors. Great for removing chewing gum from fabrics, freezing adhesives for easy removal, protecting heat sensitive components during soldering or for thermal fitting metal parts. The flow control trigger nozzle enables the user to apply the product with pinpoint accuracy and reduce product usage.

Applications: Avionics, electronic equipment, computers.

Freeze Mist contains no ozone depleting chemicals. The anti static formulation minimizes the risk of electrostatic damage to sensitive components.

Part No. 19-8410-6	6 oz. Aerosol
Part No. 19-8410-10	10 oz. Aerosol
Part No. 19-8410	12 oz. Aerosol
Part No. 19-8410-SF	12 oz. Anti-Static Aerosol

NON-AEROSOL CLEANERS



Isopropyl Alcohol (Anhydrous)

This extremely pure (99.9%) alcohol is frequently the recommended cleaner by manufacturers of tape heads, disc drives, etc. Does an excellent job of dissolving and removing oxides from recording heads, also an excellent degreaser. Leaves no residue. This is not an aerosol, but an aerosol-style can with a snap on top. Suggested for use with swabs, clean cloth, or by immersion or trigger sprayer.

Part No. 10-1507	16 fl. oz.
Part No. 10-1507-G	1 gal.
Part No. 10-1507-6G	6 gal.

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: **Air Jet**
 Product Name: **GC AIR JET**
 Part Number(s): **19-8475**
19-8475-10
Z-9726
19-8508

Section 1 - Identification of ProductCOMMON NAME (used on label)(Trade Name & Synonyms): **GC AIR JET**

CAS. NUMBER: See Section 2

CHEMICAL NAME: 1,1,1,2-Tetrafluoroethane

CHEMICAL FAMILY: Hydrofluorocarbon

FORMULA: Not Applicable

GENERIC NAME: HFC-134a

HMIS RATINGS		NFPA		Minimal Hazard	0
Health:	2	Health	2	Slight Hazard	1
Flammability:	0	Flammability:	1	Moderate Hazard	2
Reactivity:	0	Phy. Hazard:	0	Serious Hazard	3
Personal Protection:	B			Severe Hazard	4
				Gloves, Safety Glasses	B

Section 2 - Hazardous Ingredients

Principal Hazardous Component(s)

CHEMICAL AND COMMON NAME(S)	CAS. #	CONTENT	SUPPLIER AEL		EINECS
			ppm ⁽¹⁾	mg/m ³	
1,1,1,2-Tetrafluoro- ethane (HFC-134a)	811-97-2	100	1000		223770

OSHA TABLE COMMENTS:

1.* (AEL) = Acceptable Exposure Limit as established by the manufacturer.

NOTE: This product does not contain any ingredients subject to Section 313 of SARA Title III.

N/A is not available or not applicable

EEC label symbol and classification currently not classified according to EEC Directives.

Section 3 - Physical Data

BOILING POINT : -15.1°F (-26.2°C)
FREEZING POINT: -149.8°F (-101°C)
SPECIFIC GRAVITY (Water = 1): 1.22 @ 68°F (20°C)
VAPOR PRESSURE : 85.8 psi @ 70°F (21.1°C)
PERCENT VOLATILE BY WEIGHT (%): 100% @ 68°F (20°C)
VAPOR DENSITY (Air = 1): 3.5
EVAPORATION RATE (C.C.L.4 = 1): >1
SOLUBILITY IN WATER: Negligible
APPEARANCE AND ODOR: Clear gas at standard temperature and pressure with a slight ethereal odor.
FINISHED PACKAGE: Aerosol container filled with liquefied gas.
Ph: Neutral

Section 4 - Fire & Explosion Hazard Data

FLASH POINT: Not applicable.
FLAMMABLE LIMITS IN AIR* and METHOD: None.
EXTINGUISHER MEDIA: As appropriate for combustibles in area
EXPLOSION HAZARDS: This product is not flammable at ambient temperatures and atmospheric pressure. However, this material may become combustible when mixed with air under pressure and exposed to strong ignition sources.
AUTO-IGNITION TEMPERATURE: >1382°F (750°C)
SPECIAL FIRE FIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure build-up and possible bursting when exposed to high temperatures. Firemen should wear self-contained, positive pressure, respiratory equipment. Hazardous decomposition products.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Keep temperature of containers below 120 Deg. F to prevent bursting. Exposure to temperature above 120 Deg. F may cause can to burst with violence and cause injury.

*Comments: Based on ASHRAE Standard 34 with match ignition

Section 5 - Health Hazard Data

EMERGENCY OVERVIEW:
PHYSICAL APPEARANCE: Clear, colorless, volatile liquid
IMMEDIATE CONCERNS: Warning! High concentrations of vapor can reduce oxygen available for breathing. Harmful if inhaled. May decompose on contact with flames or extremely hot metal surfaces to produce toxic and corrosive products.

POTENTIAL HEALTH EFFECTS:
EYES: Liquid contact can cause irritation, which may be severe.
SKIN: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
INHALATION: High concentrations in immediate area can displace oxygen and can cause dizziness, unconsciousness, and possibly death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.

Section 10 - Regulatory Information
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TRANSPORTATION INFORMATION-DOMESTIC GROUND

Shipping Name: 1, 1, 1, 2-Tetrafluoroethane
 Hazard Class: 9
 UN Number: UN3159
 Packing Group: N/A
 Hazard Label: ORM-D
 Carton Marking: ORM-D
 NAERG: #12
 DESCRIPTION: 134A Refrigerant, complies with DOT-E 10232

ROAD AND RAIL (ADR/RID):

KEMLER NUMBER: UN3159
 HAZARD CLASS: 2.2

AIR (ICAO/IATA)

PROPER SHIPPING NAME: CONSUMER COMMODITY, ORM-D AIR, DOT-SP 10232
 UN/NA NUMBER: ID8000
 PRIMARY HAZARD CLASS/DIVISION: 9
 PACKING GROUP: NA

VESSEL(IMO/IMDG)

PROPER SHIPPING NAME: CONSUMER COMMODITY, ORM-D AIR, DOT-SP 10232
 UN/NA NUMBER: ID8000
 PRIMARY HAZARD CLASS/DIVISION: 9
 PACKING GROUP: NA
 LIMITED QUANTITY: 120 mL

SPECIAL SHIPPING NOTES:

Domestic Shipments Only. For International shipments use 1,1,1,2-Tetrafluoroethane, UN3159, 2,2; Pkg Instr 200; Authorization: DOT-SP 10232; NOTE: Copy of the Exemption is required with all shipments; HAZARD LABEL; Non-Flammable Gas; (LTD QTY of class 2" when <120mL (5 oz.)

UNITED STATES**SARA TITLE III(SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

311/312 HAZARD CATEGORIES: Immediate/Pressure
 PRESSURE GENERATING: yes ACUTE: yes
 312 REPORTABLE INGREDIENTS: Not considered a SARA 313 "Toxic Chemical"

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT):

CERCLA REGULATORY: Releases to air, land, or water which exceed the RQ must be reported to the National Response Center (800) 424-8802 and to your Local Emergency Planning Committee.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product is listed on the TSCA inventory.