

HFE Super Cleaner Degreaser



4120

We have reformulated our existing HFE blends with a newly developed solvent that allows us to maintain the cleaning power, non-flammability, non-conductivity, and environmental friendliness while dramatically reducing the cost.

For removing flux, greases, oils, oxides, silicones, carbon, dirt, smoke film and grime, where a non-flammable, non-conductive solvent is required. Test for plastic compatibility before use. If sprayed too liberally, liquid left behind may separate and become flammable. Extra effective with the use of M.G. Cat.#'s 852 and 853 Hog Hair cleaning brushes.

Replacing 141b was never so easy!

- Non flammable
- Non conductive
- Non corrosive
- Excellent Cleaning Strength
- Fast dry
- Leaves no residue
- Environmentally Friendly
- 100% Ozone safe
- Significantly lowers cost than standard HFE Blends
- Perfect replacement for 141B

Available Sizes

Sizes Available	Catalog Number	Description
4120-450G	450g (16 oz)	Aerosol





Material Safety Data Sheet

Section 1: Product Identification

MSDS Code: 4120 - aerosol Name: HFE Super Cleaner Degreaser

Related Part Numbers: 4120-450G

Use: For cleaning electronic parts and components.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
156-60-5	1,2-trans-dichloroethylene	30 - 35	200ppm	200ppm	N/e
811-97-2	1,1,1,2 - tetrafluoroethane	30 - 35	1000ppm	N/e	N/e
406-58-6	1,1,1,3,3-pentafluorobutane	24 - 28	N/e	N/e	N/e
71-36-3	n-butyl alcohol	1 - 4	100ppm	100ppm	150ppm
163702-08-4	(Perfluoroisobutyl) methyl ether	2 - 6	600ppm	N/e	N/e
163702-07-6	(Perfluoro-n-butyl) methyl ether	2 - 4	600ppm	N/e	N/e

Section 3: Hazards Identification

WHMIS Codes: A, D2B

NFPA Ratings: Health 2 Flammability 0 Reactivity 0 HMIS Ratings: Health 2 Flammability 0 Reactivity 0

Eyes: Causes eye irritation, including redness, swelling, pain, tears, and hazy vision.

Skin: Causes skin irritation, including redness, swelling, dryness, and itching.

Inhalation: May cause irritation of the nose and throat. May cause central nervous system depression.

Ingestion: Ingestion is not a like route of exposure to this product.

Chronic: Prolonged exposure may cause liver and kidney damage.

Section 4: First Aid Measure

Eyes: Remove contact lenses. Immediately flush with water or saline for 20 minutes. Get medical aid

immediately.

Skin: Wash skin with large quantities of soap and water. Get medical aid if symptoms persist.

Inhalation: Immediately remove from exposure to fresh air. If not breathing, give artificial respiration. If

breathing is difficult, get medical aid immediately.

Ingestion: Do not induce vomiting. If conscious, give 1-2 glasses of water. Get medical aid immediately.



Section 5: Fire Fighting Measures

Autoignition Temperature: N/a Flash Point: None LEL / UEL: N/a

Extinguishing Media: Use water, dry chemical, dry powder, and carbon dioxide.

General Information: N/e

Section 6: Accidental Release Measures

Spill Procedure: Remove all sources of ignition. Provide adequate ventilation. Wear appropriate personal

protection. Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and

water.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale.

Do not expose container to heat or flame.

Storage: Keep away from sources of ignition. Store in a cool, dry, well-ventilated area, away from incompatible

substances.

Section 8: Exposure Controls

Routes of entry: Eyes, ingestion, inhalation, and skin.

Ventilation: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure

limits

Personal Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective

Protection: clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

PhysicalAerosolOdor:SlightSolubility:SlightEvaporationN/e

State: Rate:

Boiling 36.8°C Specific 1.27 Vapor 30 PSI Vapor N/e pH: N/a

Point: Gravity: Pressure: @20°C Density:

Section 10: Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Conditions to avoid: Temperatures over 40C, ignition sources, and incompatible substances.

Incompatibilities: Strong bases, strong acids, strong oxidizing agents, amines.

Polymerization: Will not occur.

Decomposition: Carbon dioxide, carbon monoxide, hydrogen fluoride, hydrogen chloride,

perfluoroisobutylene.



Section 11: Toxicological Information

Sensitization: (effects of repeated exposure)

Carcinogenicity: (risk of cancer) No

Teratogenicity: (risk of malformation in an unborn No

fetus)

Reproductive Toxicity: (risk of sterility)

No

Mutangenicity: (risk of heritable genetic effects) No

Lethal Exposure Ingestion >2190 mg/kg Inhalation N/e Skin N/e

No

Concentrations: (LD50): (rat) (LC50): (LD50):

Section 12: Ecological Information

General Avoid runoff into storms and sewers, which lead into waterways. Water runoff can cause

Information: environmental damage.

Environmental Impact Data: (percentage by weight)

CFC: 0 **HFC:** 30 **CI.Solv:** 0 **VOC:** 70 **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:

Shipper must be trained and certified. Refer to IATA regulations.

Sea:

UN# 1950. Class 2.1. Shipper must be trained and certified. Refer to IMDG regulations.

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, 40 CFR 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.