

## 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 11: Toxicological Information

<b>Sensitization:</b> (effects of repeated exposure)	No			
<b>Carcinogenicity:</b> (risk of cancer)	No			
<b>Teratogenicity:</b> (risk of malformation in an unborn fetus)	No			
<b>Reproductive Toxicity:</b> (risk of sterility)	No			
<b>Mutagenicity:</b> (risk of heritable genetic effects)	No			
<b>Lethal Exposure Concentrations:</b>	<b>Ingestion (LD50):</b> >2190 mg/kg (rat)	<b>Inhalation (LC50):</b> N/e	<b>Skin (LD50):</b> N/e	

## Section 12: Ecological Information

**General Information:** Avoid runoff into storms and sewers, which lead into waterways. Water runoff can cause environmental damage.

**Environmental Impact Data:** (percentage by weight)

**CFC:** 0      **HFC:** 30      **Cl.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.