

NAF-S-III Chemical Fire Extinguishing Agent

1. IDENTIFICATION

Manufacturer: Flag Fire Equipment
Hwy #2 & Patillo Road, RR#1
Tecumseh, Ontario N8N 2L9
Emergency Phone: (519)727-6722
Technical Information: (519)727-6722

Chemical Name: Hydrochlorofluorocarbon 594 (Blend A)
Chemical Family: Mixture
Formula:
Identifier: Fire Extinguisher NAF S III Chemical
Product Use: Used in the application of extinguishing fires.

2. INGREDIENTS

Hazardous Ingredients:	%	Cas#	LD50	LC50
Chlorodifluoromethane	82	75-45-6	N/Av	280,000 ppm
2Chloro 1,1,1,2-Tetrafluoroethane	9.5	2837-89-0	N/Av	570,000
2.2 Dichloro-1,1,1-Trifluoroethane	4.75	306-83-2	2,000 mg/kg	32,000 ppm
Isopropenyl-1-Methyl Cyclohexene	3.75	5989-27-5	4400 mg/kg	N/Ap

Fire Extinguishers contain compressed gas to ensure a high velocity discharge of product. WHMIS Class A.

3. PHYSICAL DATA

Physical State: Liquid
Odour and Appearance: Colourless, Citrus like odour
Odour Threshold (ppm): 10,000
Vapour Pressure (mm Hg): 6,190 @ 20°C
Evaporation Rate: >1 (butyl Acetate)
Boiling Point: 38.3°C
Freezing Point: -107°C
pH: Not Applicable
Specific Gravity: 1.2 @ 25°C
Density (g/ml) 1.2 @ 25°C

4. FIRE & EXPLOSION HAZARD DATA

Flash Point (°C) and Method:: Not applicable
Means of Extinction: None required.
Upper Flammable Point: Not applicable
Lower Flammable Point: Not applicable
Auto Ignition Temperature (°C) Not applicable
Hazardous Combustion Products: Hydrogen Chloride, Phosgene, Hydrogen Fluoride
Explosion Data:
Sensitivity to Impact: Not applicable
Sensitivity to Static Discharge: Not applicable

5. REACTIVITY DATA

Stability:	Stable
Incompatibility:	Can react violently with powdered aluminum, sodium and potassium. Lithium in contact with this material may detonate.
Hazardous Decomposition Products:	None.

6. TOXICOLOGICAL PROPERTIES

Effects of Overexposure:	Mild irritation of nose, throat and upper airways, light headedness, giddiness, dizziness, drowsiness and loss of co-ordination. More severe exposures may cause nausea, vomiting, irregular heartbeat death from cardiac arrest. Contact with eyes may cause mild irritation. Frostbite may occur due to freezing effect of this material.
Exposure Limits:	TLV-C = 1000 ppm
Irritancy of Product:	May cause skin and eye irritation
Sensitization to Product:	Unlikely to occur.
Carcinogenicity:	No data
Teratogenicity:	No data
Reproductive Toxicity:	No data
Mutagenicity:	No data
Synergistic Products:	No data

7. PREVENTATIVE MEASURES

Gloves:	Impervious gloves, neoprene or viton.
Respirator:	For over 10,000 ppm use air supplied respirator.
Footwear:	Impervious material, neoprene or viton.
Clothing:	Coveralls made of resistant material such as neoprene, viton, PVC, natural rubber.
Eyewear:	Chemical safety goggles. Face shield may be necessary.
Engineering Controls:	The hazard potential for this substance is relatively low therefore general ventilation is suitable. Use local exhaust to reduce airborne aerosol.
Leak and Spill Procedure:	Restrict area until area properly ventilated. Chemical vapourizes upon discharge into air.
Waste Disposal:	Dispose in accordance with local, state and federal regulations.
Handling Procedures:	Transfer liquid in closed system.
Storage Requirements:	Cool dry, ventilated areas.
Special Shipping Information:	Fire Extinguisher Class 2.2 UN #1044

8. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air. If not breathing, give artificial respiration. Obtain medical attention immediately.
Ingestion:	Do not induce vomiting. Have victim drink 240 to 300 ml of water. Obtain medical attention.
Eye Contact:	Blot away excess chemicals. Flush eyes with lukewarm water for 20 minutes. Obtain medical attention.
Skin Contact	For frostbite, immediately flush with lukewarm water for 20 minutes. Obtain medical attention.

9. PREPARATION DATE OF MSDS

Prepared by: Health and Safety
Date: January 1, 2004

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MSDS Control #504-10MS



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