

1702 Chase Dr. Fenton, MD 63026 314-343-5153

## MATERIAL SAFETY DATA SHEET

MAINTENANCE DEPT.

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## SECTION 1 - IDENTITY

GARMAN COMPANY  
1702 Chase Dr.  
Fenton, MD 63026  
EMERGENCY TELEPHONE NUMBER: 314-343-5153

TRADE NAME: BRITE'ALUM  
DATE PREPARED: 01/15/90

## SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPOUNDS	CAS	%	ACGIH TLV
Hydrofluoric Acid	7664-39-9	1-10	3ppm
Quaternary ammonium chloride	68187-69-9	1-10	NDA
Methylene phosphonic acid	6519-19-8	1-10	NDA
Isopropanol	67-63-0	1-10	400ppm

## SECTION 3 - CHEMICAL &amp; PHYSICAL DATA

Boiling Point.....	218F	Specific Gravity.....	1.05
Vapor Pressure.....	NDA	Vapor Density.....	NDA
Volatile by Volume.....	87	Evaporation Rate (water=1).....	<1
Flash Information.....	2.61	Solubility in water.....	100
Reactivity in water.....	NONE	Appearance & Odor:	pink liq.; slight

## SECTION 4 - FIRE &amp; EXPLOSION HAZARD DATA

Flash Point: NA Flammable Limits: NA LEL: NA / UEL: NA

Extinguishing Media: NA

Fire and Explosion Hazards: None

Spill/Leakage and Cleanup Procedures: Reacts with most substances. Store in polyethylene

## SECTION 5 - HAZARDOUS REACTIVITY

Stability: Stable Hazardous Polymerization: Cannot occur

Incompatibility: Avoid contact with strong alkalis.

Reactivity: Hydrogen gas from contact with some metals.

SDS - VAPCO BRITE'ALUM

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## SECTION 6 - HEALTH HAZARD INFORMATION

THRESHOLD LIMIT VALUE: 90ppm (estimated)

## SIGNS AND SYMPTOMS OF EXPOSURE:

A. Acute overexposure: Causes burns which may not be immediately painful or visible. Mist can cause damage to nasal and respiratory passages.

B. Chronic overexposure: None known.

CARCINOGENICITY: Not listed as a carcinogen by IARC, NTP, OSHA, ACGIH.

EXPOSURE LIMITS: OSHA - Not established. ACGIH - Not established.

SAFETY PRECAUTIONS: Avoid contact with eyes, skin, or clothing. Use only with chemical resistant gloves and protective eyewear. Avoid breathing vapors. Use only with adequate ventilation.

## EMERGENCY FIRST AID PROCEDURES:

A. Eyes: Immediately flush with plenty of water for at least 15 minutes. Hold eyelids open during flushing. Get immediate medical attention. Do not use chemical antidote.

B. Skin: Immediately flush with large quantities of cool water while removing contaminated clothing. Pay particular attention to skin under nails. Get medical attention if irritation develops.

C. Internal: DO NOT INDUCE VOMITING. Dilute by giving water. Give milk of magnesia. Keep warm, quiet. Get medical attention immediately.

D. Inhalation: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep warm, quiet, and get medical aid.

## SECTION 7 - PROTECTION INFORMATION

Respiratory Protection: If TLV is exceeded, use approved NIOSH/MSHA respirator

Ventilation: Local \_\_\_\_\_ Mechanical  Other \_\_\_\_\_

Protective Gloves: Neoprene or PVC Eye Protection: Splash goggles

Other Protective Equipment: Impervious clothing and boots.

Storage Precautions: Store in dry location away from heat and sunlight. Store material only in polyethylene containers.

## SECTION 8 - SPILL/LEAK PROCEDURES

Procedures for cleanup: Avoid breathing vapors. Neutralize with soda ash; flush with plenty of water applied quickly to entire spill area.

Waste Disposal: According to local, state, and federal regulations

## SECTION 9 - TRANSPORTATION DATA

D.O.T. Shipping Name: Compound, cleaning, liquid (contains hydrofluoric acid)

Hazardous Class: Corrosive Material Label: Corrosive NA/UN No.: NA11

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