



## **SGT. HALT**

### **“Advanced Concrete Protectant”**

**“Prevents water, oil and most other liquids from penetrating the surface and keeps on protecting for up to 5 years.”**

#### **Background:**

Concrete, stucco, grout and all masonry products contain calcium carbonate as the primary binder. We have developed new technology, never seen before, which makes a way to bond fluorine to this calcium and render these substrates *totally oil and water repellent*.

#### **Chemistry:**

The calcium and fluorine bond is referred to as a double bond. Chemically, this is a very stable, durable molecule. This calcium fluoride is a true conversion of the concrete not a simple coating. It is permanent. The reaction takes three days to completely bond. However, most of the conversion takes place after the concrete is dry to the touch.

#### **Directions and physical characteristics:**

The chemical is a white emulsion with a medicinal smell. It is non-toxic and biodegradable. It is applied by a garden type sprayer, paint roller or simply pouring and spreading. The chemical covers sixty-nine square feet per gallon for unimproved concrete and twice that for smooth or sealed concrete. It dries tack dry in about three hours at seventy degrees Fahrenheit. One-gallon weighs eight point five pounds.

#### **Applications:**

**Concrete:** Walkways, flooring, load bearing structures and all walls and structures. This includes, reinforced concrete with rebar.

**Stucco:** Both vertical and horizontal surfaces. This is especially useful in coastal areas where salt spray and salt laden moisture is present. Salt eats at concrete and mortar.

**Anti-graffiti:** Concrete brick and surfaces can be rendered resistant to vandalism and graffiti.

**Warehouse flooring:** This concrete conversion process allows protection for unimproved and high friction flooring suitable for forklift trucks. It also provides the same cleanliness of a protected painted surface but without the slippery finish. The process will also prevent chemical spills from leaching into groundwater.

**Freeze cracking:** Freeze cracking is a problem in northern climates. The porous concrete absorbs moisture and expands as it freezes. Eventually, this causes the concrete to deteriorate and crack. If the concrete is water repellent, it will last longer.

**Algae and mildew:** Algae and mildew contaminate concrete in moist, high humidity climates. By rendering the concrete or stucco water proof, algae and mildew will not grow.

#### **Additives:**

Our formula contains a volatile corrosion/rust inhibitor to prevent rust in steel reinforcing. The concrete is converted to calcium fluoride and the steel reinforcement is also protected from the environment. Resulting in a guaranteed effectiveness of 3 to 5 years.

**Crete Shield** also offers a UV blocker for stucco walls and roofing. The UV blocker prevents heat buildup on these surfaces, lowering cooling costs in warmer climates. Since the stucco will repel water, additional heat buildup is prevented as damp stucco holds more heat, longer. The same is true for concrete brick walls.

# SGT. HALT

## ADVANCED CONCRETE PROTECTANT

HAZARD RATINGS NFPA HMIS DATA		
HEALTH	1	0= MINIMAL 1= SLIGHT
FIRE	0	2=MODERATE 3=HIGH
REACTIVITY	0	4=EXTREME

**MANUFACTURED BY:** TWIN-CHEM., INC.  
**ADDRESS:** 6175 Hickory Flat Hwy. Suite 110-344  
 Canton, GA 30115  
**EMERGENCY PHONE NUMBER:** (800) 552-3787 (CERTS - CHEMICAL  
 EMERGENCIES ONLY)  
**PHONE NUMBER FOR INFORMATION:** (800) 442-4958  
**DATE REVISED:** July 16, 2003  
**NAME OF PREPARER:** SALIENT CORPORATION

### SECTION II HAZARDOUS INGREDIENTS/INFORMATION

INGREDIENT	CAS NO.	OSHA PEL	ACIGH TLV	OTHER STEL	% OR RNG	S K	313
n-PROPYL BROMIDE	106-88-7	20 PPM	20 PPM		< 1		▲

NOTE: AN "▲" UNDER 'SK' (SKIN) INDICATES THAT OSHA REQUIRES SKIN PROTECTION TO PREVENT OR REDUCE EXPOSURE TO THIS INGREDIENT. AN "▲" UNDER 313 INDICATES THAT THE MARKED ITEM IS A SUBSTANCE SUBJECT TO SARA TITLE III, SECTION 313 REPORTING. SEE SECTION IX FOR SPECIFIC REPORTING REQUIREMENTS..

### ACUTE HEALTH - CHRONIC HEALTH

Boiling Point	N/A	Specific Gravity (H2O=1)	> 0.97 – 0.98
Vapor Pressure (mm Hg)	N/A	Melting Point	< N/A
Vapor Density (Air=1)	N/A	Evaporation Rate (Water=1)	< 1
Solubility in Water:	50%		
Appearance and odor:	MILKY, WATER-WHITE LIQUID WITH ETHER ODOR.		
VOC:	None		

Flash Point (Method Used):	NONE	Flammable Limits:	LEL: <u>N/A</u> UEL: <u>N/A</u>
Extinguishing Media:	APPROPRIATE TO SURROUNDING FIRE.		
Special Fire Fighting Procedures:	APPROPRIATE TO SURROUNDING FIRE.		
Unusual Fire and Explosion Hazards:	NONE.		

Incompatibility (Materials to Avoid):	Do not mix with strong oxidizers.
Hazardous Decomposition or Byproducts:	None known.
Hazardous Polymerization:	Will Not Occur

Route(s) of Entry:	Inhalation? <u>YES</u>	Skin? <u>YES</u>	Ingestion? <u>YES</u>	Eyes? <u>YES</u>
Health Hazards (Acute and Chronic):	May irritate eyes.			
Carcinogenicity:	NTP? <u>NO</u>	IARC Monographs? <u>NO</u>	OSHA Regulated? <u>NO</u>	
	n-Propyl Bromide has been stipulated as causing cancer in laboratory animals. Effects on humans has not been determined. N-Propyl bromide level in this product is less than 1%.			

Signs and Symptoms of Exposure:

\* ATLANTA \* SPARTANBURG \* ORLANDO \*

**INHALATION:** Mild irritation of respiratory system with possible difficulty in breathing. Excessive overexposure may result in central nervous system depression.  
**INGESTION:** May cause gastric distress, nausea and vomiting.  
**SKIN CONTACT:** Prolonged contact may result in redness and irritation.  
**EYE CONTACT:** Vapors and liquid may cause mild irritation.

Medical Conditions Generally Aggravated by Exposure: Unknown

Emergency and First Aid Procedures:

**INGESTION:** Administer large quantities (3 – 4 large glasses) of water. Induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.  
**INHALATION:** Remove victim to fresh air. Support breathing and/or apply oxygen if necessary. If breathing does not return to normal, GET MEDICAL ATTENTION.  
**EYE CONTACT:** Immediately flush eyes in clear running water for at least 15 minutes lifting upper and lower lids periodically. If irritation results and persists, GET MEDICAL ATTENTION WITHOUT DELAY  
**SKIN CONTACT:** Wash with soap and water. If irritation results, apply skin cream.

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Steps to Be Taken in Case Material is Released or Spilled:

**SPIILLS:** Mop up or pump spill into sealable containers for disposal in an approved waste site. Rinse area with water.

**Waste Disposal Method:** DISPOSE OF WASTE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. ALTHO UNCONTAMINATED PRODUCT

**Precautions to Be Taken in Handling and Storing:** Do not store at temperatures above 120°F. Do not freeze. Keep container tightly closed when not in use.

**Other Precautions:** KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN.

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**Respiratory Protection (Specify Type):** Not required when adequate ventilation exists. If exposure levels exceed those listed in Section II, use NIOSH/MSMA approved chemical cartridge respirator with organic vapor cartridge (CCR-OV).

**Ventilation:** Local exhaust as required to maintain concentration in air below exposure limits from Section II.

**Protective Gloves:** Neoprene.

**Eye Protection:** Chemical goggles with splash guards.

**Other Protective Clothing or Equipment:** Not required.

**Work/Hygienic Practices:** Use good housekeeping practices. Wash hands before smoking, eating or using restroom. Wash contaminated clothing before reworking.

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#### ENVIRONMENTAL

**BIODEGRADABILITY:** BIODEGRADABLE.

**WASTE DISPOSAL METHODS:** DISPOSE OF IN AN AUTHORIZED WASTE FACILITY IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

#### ADDITIONAL INFORMATION

**EMPTY CONTAINER HANDLING:**

**WARNING!** EMPTIED CONTAINER RETAINS PRODUCT RESIDUE. OBSERVE ALL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED. KEEP EMPTY CONTAINER CLOSED TIGHTLY.

#### SARA TITLE III REPORTING REQUIREMENTS

SECTION 302- EXTREMELY HAZARDOUS SUBSTANCES

REPORTING NOT REQUIRED

SECTION 304- HAZARDOUS RELEASES

REPORTING NOT REQUIRED

SECTION 311- COMMUNITY RIGHT TO KNOW (R-T-K)

REPORTING REQUIRED FOR INVENTORY ABOVE TPQ.

SECTION 312- R-T-K INVENTORY DATA

REPORTING REQUIRED FOR INVENTORY ABOVE TPQ.

SECTION 313- EMISSIONS AND RELEASE

REPORTING MAY BE REQUIRED FOR MANUFACTURING USERS WITHIN S.I.C. 20 - 39

CERCLA

SAME AS SECTION 304

\* ATLANTA \* SPARTANBURG \* ORLANDO \*

## REFERENCES

TOXIC SUBSTANCE CONTROL ACT LIST (TSCA) - INGREDIENTS LISTED.

### PERMISSIBLE EXPOSURE REFERENCES:

REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES  
TITLE 29 CODE OF FEDERAL REGULATIONS  
NATIONAL TOXICOLOGY PROGRAM (NTP) REPORT ON CARCINOGENS  
INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS

### REGULATORY STANDARDS:

DOT TITLE 49 CODE OF FEDERAL REGULATIONS 172.101  
SARA TITLE III  
NUCLEAR REGULATORY AGENCY

DOT SHIPPING NAME: CHEMICALS, N.O.S. (NOT DOT/IMO HAZARDOUS)

DOT HAZARD LABEL: NONE

This document complies with O.S.H. A. requirements under 29CFR 1910.1200

THE INFORMATION CONTAINED HEREIN is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.