

# SAFETY DATA SHEET

Date Prepared : 05/29/2015  
MSDS No : VSP Etch Cream  
Date Revised : 05/29/2015  
Revision No : 1



## VSP Vehicle Sentry Protection Etch Cream

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** VSP Vehicle Sentry Protection Etch Cream  
**GENERAL USE:** Chemical etching of glass

#### MANUFACTURER

Cal-Tex Protective Coatings, Inc.  
7455 Natural Bridge Caverns Rd.  
Schertz, TX 78154

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

INFOTRAC (US Transportation): 800-535-5053  
Poison Control Center (Medical): 877-800-5553

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Skin Corrosion, Category 1B  
Acute Toxicity (Oral), Category 3

#### GHS LABEL



Corrosion



Skull and  
crossbones

**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage.  
H301: Toxic if swallowed.

#### PRECAUTIONARY STATEMENT(S)

##### Prevention:

6458G8LP: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

##### Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P310: Immediately call a POISON CENTER/doctor/...

## VSP Vehicle Sentry Protection Etch Cream

2236QD40: Attempt immediate administration of a fluoride binding substance. Options include milk (4 to 8 ounces), chewable calcium carbonate tablets or Milk of Magnesia. Avoid large amounts of liquid, since this may induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

5569XIB2: Wash thoroughly with alkaline soap if available and water for at least 20 minutes.

P363: Wash contaminated clothing before reuse.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage:**

P405: Store locked up.

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Violet cream or gel

**IMMEDIATE CONCERNS:** Corrosive and causes severe irritation and burning of the skin, eyes and mucous membranes. Harmful or fatal if swallowed, inhaled or absorbed through the skin.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Corrosive to the eyes and may cause severe corneal damage including blindness.

**SKIN:** Contact causes severe skin irritation and burns, that may not be immediately visible.

**SKIN ABSORPTION:** The fluoride components of this product can penetrate the skin and destroy the deep tissue layers, including bone tissue. This damage to the body's tissues may continue for days, as the fluoride ion reacts with the calcium in the skin and bone. Severe skin-contact exposures (especially when the skin contamination exceeds 25 square inches) can cause hypocalcemia, a lifethreatening lowering of serum calcium in the body.

**INGESTION:** Harmful or fatal if swallowed, may cause corrosive damage to gastrointestinal tract, symptoms include, salivation, nausea, vomiting, diarrhea, burning abdominal pain, followed by convulsions, shock, muscle spasms, coma, cardiac arrhythmias, cardio and pulmonary arrest, and possibly, death.

**INHALATION:** Vapor may cause irritation to the respiratory tract and lung damage if exposure is excessive.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Ammonium Bifluoride	25 - 35	1341-49-7

**4. FIRST AID MEASURES**

**EYES:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention immediately. Finish by rinsing thoroughly with running water to avoid a possible infection.

**SKIN:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

**INGESTION:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

**INHALATION:** Immediately remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Note: Symptoms may be delayed; prompt medical attention may be required. Call a physician.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**CHRONIC EFFECTS:** May cause mottling of teeth and bone damage (osteosclerosis) and fluorosis. Symptoms of fluorosis include brittle bones, weight loss, anemia, calcified ligaments, general ill health and joint stiffness.

**NOTES TO PHYSICIAN:** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation

## VSP Vehicle Sentry Protection Etch Cream

of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE CLASS:** Non-flammable

**GENERAL HAZARD:** The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**EXTINGUISHING MEDIA:** Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

**FIRE FIGHTING EQUIPMENT:** Firefighters should use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. ACCIDENTAL RELEASE MEASURES**

**SMALL SPILL:** Wipe up liquid with papertowel. Clean surface thoroughly to remove residual contamination.

**LARGE SPILL:** Confine spill by diking or impoundment. Clean up spill by absorbing with an inert material such as sand, soil, sawdust, oil dry or vermiculite. Sweep up absorbant and dispose according to regulatory requirements. Ventilate area to avoid breathing vapors or dust.

**ENVIRONMENTAL PRECAUTIONS**

**WATER SPILL:** Keep spills and cleaning runoffs out of municipal sewers and open bodies of water if safe to do so.

**GENERAL PROCEDURES:** Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

**SPECIAL PROTECTIVE EQUIPMENT:** Use personal protective equipment as required.

**7. HANDLING AND STORAGE**

**HANDLING:** Use care in handling. Avoid contact with eyes, skin, and clothing. Avoid release to the environment. Follow label directions.

**STORAGE:** Store in original container protected from direct sunlight in a dry, cool, well-ventilated area and away from food and drink.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
				EXPOSURE LIMITS			
				OSHA PEL		ACGIH TLV	
Chemical Name				ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ammonium Bifluoride				TWA	2.5		2.5

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Wear safety glasses with side shields (or goggles).

**SKIN:** Nitrile gloves are recommended. Suitable chemical protective gloves should be worn when the potential exists for prolonged or repeated skin exposure. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

**RESPIRATORY:** No personal respiratory protective equipment normally required. If engineering controls do not maintain

## VSP Vehicle Sentry Protection Etch Cream

airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

**PROTECTIVE CLOTHING:** Wear suitable protective clothing. Wear appropriate chemical resistant clothing if applicable.

**WORK HYGIENIC PRACTICES:** When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**ODOR:** Pungent

**ODOR THRESHOLD:** Not Available

**APPEARANCE:** Violet cream or gel

**pH:** ~ 2

**PERCENT VOLATILE:** Not Available

**FLASH POINT AND METHOD:** Not Available

**FLAMMABLE LIMITS:** Not Available to Not Available

**AUTOIGNITION TEMPERATURE:** Not Available

**VAPOR PRESSURE:** Not Available

**VAPOR DENSITY:** Not Available

**BOILING POINT:** Not Available

**FREEZING POINT:** Not Available

**MELTING POINT:** Not Available

**THERMAL DECOMPOSITION:** Not Available

**SOLUBILITY IN WATER:** Completely soluble

**EVAPORATION RATE:** Not Available

**SPECIFIC GRAVITY:** 1.21

**VISCOSITY:** Not Available

**10. STABILITY AND REACTIVITY**

**REACTIVITY:** Contact with water forms hydrofluoric acid which can corrode glass, cement, and many metals.

**HAZARDOUS POLYMERIZATION:** Hazardous polymerization will not occur.

**STABILITY:** Stable under normal storage and handling conditions.

**CONDITIONS TO AVOID:** Avoid dispersion of etching cream particulates into air, contact with heat, moisture and ignition sources.

**POSSIBILITY OF HAZARDOUS REACTIONS:** This product may react with acids to liberate hydrogen fluoride and may react with basic materials to release ammonia.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Nitrogen oxides, fluorine and ammonia gas.

**INCOMPATIBLE MATERIALS:** Strong acids, strong bases, and oxidizers.

**11. TOXICOLOGICAL INFORMATION****ACUTE**

Chemical Name	ORAL LD <sub>50</sub> (rat)
Ammonium Bifluoride	130 mg/kg (Rat)

**EYE EFFECTS:** Eye Irritation

**SKIN EFFECTS:** Skin Irritation

**CHRONIC:** Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.

**CARCINOGENICITY**

**Notes:** The ingredients of this product are not classed as carcinogenic by ACGIH, IARC, OSHA or NTP.

**REPRODUCTIVE EFFECTS:** This product is not expected to cause reproductive or developmental effects.

**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** Analysis for ecological effect has not been conducted on this product.

**BIOACCUMULATION/ACCUMULATION:** Ammonia compounds are biodegradable and will not accumulate in the food chain.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Refer to all federal, state and local regulations prior to disposal of container and unused contents by reuse, recycle or disposal. Disposal should be in accordance with applicable regional, national and local laws and regulations. Send to a licensed/permitted waste desposer, recycler, reclaimer or incinerator.

**EMPTY CONTAINER:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**RCRA/EPA WASTE INFORMATION:** Wastes of this product must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

**RCRA HAZARD CLASS:** Liquid or aqueous solutions of this product may require an EPA waste code D002.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Ammonium Hydrodendifluoride, Solution

**PRIMARY HAZARD CLASS/DIVISION:** 8

**SECONDARY HAZARD CLASS/DIVISION:** 6.1

**UN/NA NUMBER:** 2817

**PACKING GROUP:** II

**PLACARDS:** Corrosive

**LABEL:** Corrosive

**SPECIAL SHIPPING NOTES:** DOT-SP 10672 - Do not load with food stuffs.

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** Yes **ACUTE:** Yes **CHRONIC:** Yes

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** There are no specific Threshold Planning Quantities for Ammonium Bifluoride. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs. (4,540 kg) therefore applies, per 40 CFR 370.20.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA RQ:** 100 pounds (45.4 kg)

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** Ammonium Bifluoride (CAS# 1341-49-7) is listed on the US EPA TSCA Inventory.

**REGULATIONS**

**STATE REGULATIONS:** Ammonium Bifluoride (CAS# 1341-49-7) appears on the following state hazardous substance lists:  
NJ PA.

**CALIFORNIA PROPOSITION 65:** This product does not contain any substances which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

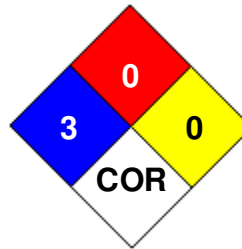
**16. OTHER INFORMATION**

**PREPARED BY:** Cal-Tex Compliance Office **Date Revised:** 05/29/2015

**REVISION SUMMARY:** This MSDS replaces the 05/29/2015 MSDS. Revised: **Section 1: PRODUCT CODE.**

**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>3</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	<b>D</b>

**NFPA CODES**

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