

ACTI-BRITE (revised Sept 2004)
Material Safety Data Sheet

SECTION I - COMPANY IDENTIFICATION

PRODUCT: ACTI-BRITE

CAT. NO.: AB-1, AB-5, AB-55

MANUFACTURED BY:
Virginia KMP Corporation
4100 Platinum Way
Dallas, Texas 75237

TELEPHONE NUMBERS:
Office: 1-(214) 330-7731
Emergency Only: 1-(800) 424-9300

SECTION II - HAZARDOUS INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200)

EXPOSURE LIMITS: 8 HR. TWA

Phosphoric acid (CAS# 7664-38-2)
Hydrofluoric acid (CAS# 7664-39-3)

	OSHA PEL	ACGIH TLV
	1 mg/m ³	1 mg/m ³
STEL	3 mg/m ³	STEL 3 mg/m ³
	3 ppm (F)	CL 3 ppm (F)
STEL	6 ppm (F)	

SECTION III - HAZARDS IDENTIFICATIONS

EMERGENCY OVERVIEW: DANGER! Corrosive to all body tissues. Avoid contact with skin or eyes. Harmful if inhaled or swallowed.

POTENTIAL HEALTH EFFECTS:

INHALATION: Inhalation of vapor or mist is corrosive to respiratory tract. Symptoms include coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

EYE CONTACT: Liquid or vapors are corrosive to eyes. Immediate irritation followed by destruction of tissue.

SKIN CONTACT: This material is corrosive to all body tissues. Full extent of damage may not be apparent for 12 - 24 hours after exposure. Severe burns are slow healing. Gangrene may follow damage.

INGESTION: Corrosive, moderately toxic, causes nausea, vomiting, loss of consciousness.

CHRONIC Effects: Damage to kidneys and liver (phosphoric acid). Changes in bones or joints (hydrofluoric acid).

NOTE:

CARCINOGENICITY: LISTED IN NTP? No

IARC? No

OSHA Regulated? No

SECTION IV - FIRST AID MEASURES

INHALATION: Ensure the victim's clothing or skin has not been contaminated by the acid before removing the victim to fresh air. If breathing has stopped, begin artificial respiration. Call ambulance immediately for assistance.

EYE CONTACT: Flush eyes with water for 15 minutes with copious cool flowing water. If only one eye is affected, be careful not to flush contaminated water into the other eye. Tilt the head in the direction of the affected eye while flushing. Take the victim to a medical facility immediately, and apply ice water compress during transport.

SKIN CONTACT: Move the victim immediately under an emergency shower or other water source and flush the affected area with large amounts of cool running water. Immediately washing off the acid is of primary importance. Remove all contaminated clothing while flushing with water. If there is a large area of exposure, arrange for emergency medical assistance while the victim is being rinsed with water. Immediately after flushing with water, begin massaging calcium gluconate gel into the burn site. Apply the gel every 15 minutes and massage until pain/redness resolves or until medical care is available. The first aider should wear gloves when applying the gel to prevent transfer of the acid.

INGESTION: Do not induce vomiting. Rinse mouth out with water. Call an ambulance immediately for assistance.

SECTION V - FIRE FIGHTING MEASURES

FLASHPOINT (TEST METHOD): None

FLAMMABLE LIMITS: LOWER: NA

UPPER: NA

AUTOIGNITION TEMPERATURE: NA

GENERAL HAZARD: Toxic fumes produced in fire.

FIRE FIGHTING INSTRUCTIONS: Approach fire from upwind side. Avoid breathing smoke, fumes, mist, or vapors on the downwind side. Firefighters wear protective clothing and self-contained breathing apparatus.

EXTINGUISHING MEDIA: Dry powder, carbon dioxide (CO₂), water fog or spray.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, irritating vapors, toxic fumes of PO_x, and corrosive F fumes, CO, CO₂.

SECTION VI - ACCIDENTAL RELEASE MEASURES

LAND SPILL: Emergency response coordinator must have mandated training. Eliminate all ignition sources. **SMALL SPILLS:** Pick up with absorbent materials and place in non-leaking containers; seal tightly for proper disposal or reuse. **LARGE SPILLS:** Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels.

WATER SPILL: Notify proper authorities.

Clean up leaks/spills immediately to prevent soil or water contamination.

SECTION VII - HANDLING AND STORAGE

ACTI-BRITE (revised Sept 2004)

HANDLING: Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in section IV. Launder contaminated clothing before reuse.

STORAGE: Store away from food stuffs, alkaline materials.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation recommended.

PERSONAL PROTECTION: If TLV is exceeded wear NIOSH approved respirator. Use heavy rubber type gloves, full-face shield and boots, aprons, drench showers, eye wash as needed for protection against spills and/or splashes.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: ND
SPECIFIC GRAVITY (H₂O=1): 1.15
SOLUBILITY IN WATER: Complete
pH: <2.0

VAPOR DENSITY (Air=1): >1
EVAPORATION RATE (BuAc=1): >1
VOC: 0%
FREEZING POINT: ND

BOILING POINT: 212 F

APPEARANCE & ODOR: Pink liquid, pungent odor.

SECTION X - STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: High temperatures.

MATERIALS TO AVOID: Alkaline materials may react with metals to produce hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: Corrosive F fumes, toxic PO_x fumes, from combustion - smoke, CO, CO₂.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

Phosphoric Acid	LDLo: 220 mg/kg	(unr - man)
	LD50: 1530 mg/kg	(oral - rat)
	LD50: 2740 mg/kg	(skin - rat)
Hydrofluoric Acid	LCLo: 50 ppm / 30 M	(inh - human)
	LC50: 966 ppm / 1 hr	(inh - rat)
	TCLo: 100 mg/m ³	(inh - human) NOSE,EYE, PUL

SECTION XII - ECOLOGICAL INFORMATION

Harmful to aquatic life in very low concentrations. Phosphoric Acid 138 ppm / 24 hr / mosquito fish / TLm / fresh water
Hydrofluoric Acid 60 ppm / fish / lethal / fresh water

SECTION XIII - DISPOSAL CONSIDERATIONS

Dispose as hazardous waste. Classification and documentation is required before disposal. Follow all local, state and federal regulations.

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Corrosive liquid, acidic, inorganic, n.o.s. (hydrofluoric acid, phosphoric acid)

HAZARD CLASS: 8

IDENTIFICATION NUMBER: UN3264

DOT Emergency Guide #: 154

Reportable Quantity (RQ): Not applicable

International: Corrosive liquid, acidic, inorganic, n.o.s. (hydrofluoric acid, phosphoric acid), 8, UN3264, PG II

SECTION XV - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): Reportable quantity is 100 pounds (hydrofluoric acid).

Contact local authorities for other reporting requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

Section 302 Threshold Planning Quantity is 65 gallons (hydrofluoric acid)

Section 313 Hydrogen Fluoride (CAS# 7664-39-3) 8 - 15%

CALIFORNIA PROPOSITION 65: Not listed.

SECTION XVI - OTHER INFORMATION

State Right-to-Know Programs: MA, NJ, PA

NFPA Ratings

Health: 4

Flammability: 0

Reactivity: 1

HMIS Protective Equipment: X See your supervisor

Prepared by: Virginia KMP Corporation

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Virginia KMP. The data on this sheet related only to specific material designated here in. Virginia KMP assumes no legal responsibility for use or reliance upon these data.