

ACTI - BRITE

Material Safety Data Sheet

SECTION I - PRODUCT IDENTIFIER

PRODUCT: ACTI - BRITE AB-1, AB-5, AB-55

SUPPLIER: Virginia KMP
4100 Platinum Way
Dallas, Texas 75237
214-330-7731

NFPA Ratings:
Health: 4
Fire: 0
React: 1
Special: Acid
0=LEAST to 4=EXTREME

Emergency Phone: Chemtrec 1-800-424-9300
International 202-483-7616

HMIS PERSONAL PROT: J

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS-(CAS Number) EXPOSURE LIMITS

Phosphoric acid (7664-38-2)-----OSHA TWA 1 mg/H3, (PEL) ACGIH 1 mg/H3, STEL 3 mg/H3

Hydrofluoric acid (7664-39-3)-----OSHA TWA 3 ppm, ACGIH 3 ppm TLV

SECTION III- PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 212° F
SPECIFIC GRAVITY (H2O=1): 1.15
VAPOR DENSITY (Air=1): >1
SOLUBILITY IN WATER: Complete
APPEARANCE AND ODOR: Pink liquid, pungent odor.

MELTING POINT: NA
VAPOR PRESSURE: ND
EVAPORATION RATE (BuAc=1): >1
pH: <2.0
VOC: 0%

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method): None
FLAMMABLE LIMITS: Lower[NA] Upper[NA]
EXTINGUISHING MEDIA: Dry powder, carbon dioxide (CO2), water fog or spray.

SPECIAL FIRE FIGHTING PROCEDURES: 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.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Firefighters wear protective clothing, and self contained breathing apparatus.

SECTION V - REACTIVITY INFORMATION

STABILITY: PRODUCT IS, Stable
INCOMPATIBILITY: --
MATERIALS TO AVOID: Alkaline materials.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: From combustion: smoke, carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY

INHALATION? possible - corrosive
SKIN ABSORPTION? possible if skin is broken
SKIN/EYES? yes - corrosive
INGESTION? possible - corrosive

HEALTH HAZARDS

ACUTE: Inhalation of vapor or mist is corrosive to respiratory tract. Liquid or vapors are corrosive to eyes. This material is corrosive to all body tissues. Full extent of damage may not be apparent for 12-24 hours after exposure.

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

CARCINOGENICITY: LISTED IN NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

SIGNS AND SYMPTOMS OF EXPOSURE: Immediate irritation and burning sensation followed by destruction of skin or eye tissue. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing skin disorders.

FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water 15 minutes. Get medical attention.

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SKIN CONTACT: Flush with water or soap and water for 15 minutes or until all traces have been removed. Seek medical attention if symptoms develop and persist.

INGESTION: Do not induce vomiting. Rinse mouth out with water. Get immediate medical attention.

INHALATION: Remove to fresh air and, if needed, immediately begin artificial respiration. Give oxygen if breathing is labored. Get emergency medical help. Contact a physician immediately.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURE: 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.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store away from food stuffs, alkaline materials.

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

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: If TLV is exceeded, wear NIOSH approved respirator.

VENTILATION: LOCAL EXHAUST - Recommended, SPECIAL - Not necessary,
MECHANICAL - Recommended, OTHER - Not necessary

PROTECTIVE GLOVES: Heavy rubber type.

EYE PROTECTION: Full face shield.

OTHER PROTECTIVE EQUIPMENT: Boots, aprons, drench showers, eye wash as needed for protection against spills and/or splashes.

WORK HYGIENIC PRACTICES: 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 VI. Launder contaminated clothing before reuse.

SECTION IX - TRANSPORTATION INFORMATION

Shipping Description: Corrosive liquid, n.o.s., (contains phosphoric acid, hydrofluoric acid), 8, UN1760, PG-II.

SECTION X - REGULATORY/ENVIRONMENTAL

EPA HAZARDS: ACUTE-Yes, CHRONIC-Yes, FLAMMABILITY-No,
SUDDEN RELEASE OF PRESSURE-No, REACTIVE-No

SARA Title III

RQ 100# for hydrogen fluoride
TPQ 100# for hydrogen fluoride

Section 313, Toxic Materials:

Chemical Name	CAS #	Percentage
Hydrogen fluoride	7664-39-3	10 - 15%
Phosphoric acid	7664-38-2	5 - 10%

CLEAN AIR ACT: Not listed

CLEAN WATER ACT: Section 311

STATES LISTS: Massachusetts, New Jersey, Pennsylvania

TOXIC SUBSTANCES CONTROL ACT (TSCA), 40 CFR 710 Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Sect. 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

Footnotes:

NA-Not applicable ND-Data not available CS-Cancer Suspect Agent OX-Oxidizer
Cor-Corrosive CALC-Calculated EST-Estimated STEL-Short Time Exposure Limit
TLV-Threshold Limit Value PEL-Permissible Exposure Limit TWA-Time Weighted Average, 8 hours
HMIS, PPI-Hazardous Material Identification System, Personal Protection Index

The data presented is true and correct to the best of our knowledge and belief, however, neither seller nor preparer makes any warranties, express or implied, concerning the information presented. The user is cautioned to perform his own hazard evaluation and to rely upon his own determinations.

SCIENTIFIC INFORMATION SERVICES

Telephone (817) 560-4631

Form essentially the same as OSHA Form 174 dated September 1985

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