

MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA's 29 CFR 1910, 1200 AND STATE HAZARD COMMUNICATION STANDARD

A BRITE COMPANY
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DALLAS, TEXAS 75247
214-638-0465

24 HOUR EMERGENCY PHONE NUMBER 1-800-424-9300 (CHEMTREC)

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: ZnBrite ABZ-477 Brightener
GENERAL OR GENERIC ID: Zinc plating bath additive
DATE PREPARED: 5/27/97
LATEST REVISION DATE: 5/27/97
NFPA/HMIS HAZARD CODES
(minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4)
HEALTH: 1/1 FIRE: 0/0 REACTIVITY: 0/0 SPECIAL: NA

SECTION 2: HAZARDOUS INGREDIENTS IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS #	OSHA PEL	ACGIH TLV	IDLH LEVEL	% /WT
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This product does not contain any materials listed as toxic chemicals as defined by the requirements of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III-Section 313, nor does it contain any hazardous materials as defined by the requirements of OSHA's Hazard Communication Standard (29 CFR 1910.1200).

*= Reportable under SARA Title III

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 212°F	SPECIFIC GRAVITY: 1.00-1.03
VAPOR PRESSURE: N/A	PERCENT VOLATILE: >80
VAPOR DENSITY: N/A	EVAPORATION RATE: slower than ether
SOLUBILITY IN WATER: complete	
APPEARANCE AND ODOR: Clear liquid with slight odor	

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >200°F	FLAMMABLE LIMITS: N/A
EXTINGUISHING MEDIA: Water fog, carbon dioxide, alcohol foam, dry chemical and Halon.	
SPECIAL FIRE FIGHTING PROCEDURES: Pressure demand, self contained respiratory protection and protective clothing should be worn by firefighters.	
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.	

SECTION 5: REACTIVITY DATA

STABILITY: Stable **HAZARDOUS POLYMERIZATION:** Will not occur
INCOMPATIBILITY: None known.
CONDITIONS TO AVOID: None known.
HAZARDOUS DECOMPOSITION PRODUCTS: None known.

SECTION 6: HEALTH HAZARD DATA

ROUTES OF ENTRY /SIGNS AND SYMPTOMS OF EXPOSURE:
ACUTE: No known effects of overexposure, mildly irritating to the eyes and skin.
INGESTION: Non toxic. Industrial chemicals are not to be taken internally.
INHALATION: Mist or dust are not hazardous.
CHRONIC EFFECTS: None known
CARCINOGENS: None under OSHA, IARC or NTP.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.
EMERGENCY AND FIRST AID PROCEDURES:
EYES: Immediately flush with plenty of water for 15 minutes. See a physician.
SKIN: Wash with soap and water. Remove contaminated clothing. See a physician if irritation occurs.
INHALATION: Remove to fresh air. If breathing has stopped start artificial respiration. See a physician.
INGESTION: Call a physician immediately, **DO NOT INDUCE VOMITING DILUTE BY DRINKING WATER (MILK IF AVAILABLE) NEVER GIVE LIQUIDS TO AN UNCONSCIOUS PERSON.**

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES:
SMALL SPILLS: Flush to treatment system with large amounts of water.
LARGE SPILLS: Contain spill, sweep up into suitable containers. Keep out of fish bearing waters.
WASTE DISPOSAL METHOD: Dump to waste water treatment system, observe local, state and federal regulations.

SECTION 8: TRANSPORTATION AND LABELING

REGULATORY INFORMATION:
DOT HAZARD CLASS: Not regulated
SHIPPING NAME: None
ID NUMBER: Not regulated
PACKING GROUP: None
LABELS: None required
TSCA: All components included in the inventory.

SECTION 9: HANDLING AND STORAGE

HANDLING AND STORING: Keep container closed when not in use.
OTHER PRECAUTIONS: Keep out of reach of children. Store in proper chemical storage area.
If water pollution occurs, notify the proper authorities.

SECTION 10: CONTROL MEASURES

RESPIRATORY PROTECTION: Use NIOSH approved respiratory equipment for dust and mist.
VENTILATION: Local exhaust to maintain air contamination.
GLOVES: Rubber gloves, neoprene, or synthetic rubber required.
EYE PROTECTION: Safety glasses or goggles required.
OTHER PROTECTIVE EQUIPMENT: As needed to prevent prolonged or repeated skin contact. Eye wash fountain and safety shower in work area.
WORK /HYGIENIC PRACTICES: Launder contaminated clothing before reuse.

THE INFORMATION WAS COMPILED FROM CURRENT, RELIABLE SOURCES AND IS BELIEVED TO BE CORRECT. AS DATA, AND OR REGULATIONS CHANGE, AND CONDITION OF USE AND HANDLING ARE BEYOND OUR CONTROL, NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION. SELLER ASSUMES NO RESPONSIBILITY FOR INJURY TO BUYER OR TO THIRD PERSONS OR FOR ANY DAMAGE TO ANY PROPERTY AND BUYER ASSUMES ALL SUCH RISKS.