

MATERIAL SAFETY DATA SHEET
ALUMA-BRITE CONCENTRATE 14

SECTION I - IDENTIFICATION

24 HOUR EMERGENCY ASSISTANCE: (EASTERN TIME) 8:00AM-5:00PM
413-452-2000 (OFF HOURS) CHEMTREC
800-424-9300

HMIS HEALTH 3
HMIS FLAMMABILITY 0
HMIS REACTIVITY 0
HMIS PROTECTION X

HEATBATH CORPORATION
107 FRONT STREET
INDIAN ORCHARD, MASS. 01151

PREPARED BY: DAVID NAGY
INFORMATION: 413-452-2000
DATE REVISED: 12/01/97 REV.01

PRODUCT NAME..... ALUMA-BRITE CONCENTRATE 14
DESCRIPTION..... Chemical product for brightening aluminum.
DOT CLASS: CORROSIVE LIQUIDS, N.O.S., (CONTAINS NITRIC ACID), 8, UN 1760, PG II

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	PEL(MG/M3)	TLV(MG/M3)	%
ACETIC ACID	64-19-7	10 PPM	10 PPM	1-10
NITRIC ACID	7697-37-2	2.0 PPM	2.0 PPM	60-70

N.E.=NOT ESTABLISHED N.A.=NOT APPLICABLE

SECTION III - PHYSICAL DATA

BOILING Point(F)..... >212 F SPECIFIC GRAVITY (H2O=1).... 1.42
VAPOR PRESSURE (mm Hg).....Nil. MELTING POINT..... N.E.
VAPOR DENSITY (Air=1)..... N.E. EVAPORATION RATE.....N.E.
SOLUBILITY IN H2O..... completely miscible. PH.....1.0
APPEARANCE/ODOR.....clear liquid, pungent odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... None. FLAMMABLE LIMITS.....None.
LOWER FLAME LIMIT..... N.A. HIGHER FLAME LIMIT..... N.A.
IN CASE OF FIRE: Use water.
SPECIAL FIREFIGHTING PROCEDURES: Wear protective clothing with self-contained breathing apparatus.
UNUSUAL FIRE HAZARDS: Prolonged contact with some metals (i.e. aluminum, tin, zinc etc.) may release flammable hydrogen gas. Hazardous fumes may be released under thermal decomposition.

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE CONDITIONS TO AVOID: None.
INCOMPATIBLE MATERIALS: strong alkali, cyanides, sulfides, oxidizable materials, combustibles, organics.
DECOMPOSITION PRODUCTS: steam, hydrogen, oxides of nitrogen.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY: inhalation, ingestion.

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HEALTH HAZARDS (ACUTE,CHRONIC): Contains STRONG ACID. Causes eye, skin and tissue burns. May be harmful or fatal if swallowed. May cause respiratory tract irritation. Avoid contact with eyes, skin or clothing. Contains OXIDIZER. Contact with other material may cause fire.

CARCINOGENICITY: None. **NTP?:** No. **IARC?:** No. **OSHA REGULATED?:** No.

SYMPTOMS OF EXPOSURE: eye, skin and respiratory tract irritation. eye, skin and tissue burns.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not known.

FIRST AID: INHALATION: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult,give oxygen. Get medical attention. **EYES:** Hold eyelids apart and flush with running water for at least 15 minutes. Get medical attention. **SKIN:** Wash affected area with plenty of water. Remove contaminated clothing. If irritation or burns are present, get medical attention. **INGESTION:** If conscious, give plenty of water followed by milk or milk of magnesia. Do not induce vomiting. Get medical attention.

SECTION VII - PRECAUTIONS/PROCEDURES

IN CASE OF SPILL: Contain spills with inert absorbant. Neutralize with soda ash or lime. Scoop up into a chemical waste container. Flush spill area with water.

WASTE DISPOSAL METHOD: Neutralize with soda ash or lime and dispose of in accordance with federal, state and local regulations.

PRECAUTIONS: Wear proper protective clothing when using this product. Wash thoroughly after handling. Use with adequate ventilation. Store away from strong alkali. When making a solution,never add water to acid. Always add acid slowly to water with constant stirring.

OTHER PRECAUTIONS: Emptied containers of this product may contain hazardous vapors and residue. Clean thoroughly before reusing or discarding. Do not use a welding torch to cut container. Do not use for water or food storage.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirator if dust, fumes or vapors are excessive. **VENTILATION:** maintain below PEL, TLV.

MECHANICAL EXHAUST..... X. **PROTECTIVE GLOVES:** rubber.

LOCAL EXHAUST..... X. **EYE PROTECTION:** safety goggles, face shield.

OTHER PROTECTIVE EQUIPMENT..... apron,boots, full cover work clothes.

WORK/HYGIENIC PRACTICES..... wash thoroughly after handling,laundry clothes.

SECT IX -SARA TITLE III INFORMATION

HAZARDOUS COMPONENT	CERCLA RQ LBS.	SECT 302 TPQ LBS.	SECT 313 TOXIC	SECT.311/312 HAZARDS
ACETIC ACID	5000	N.A.	NO	A
NITRIC ACID	1000	1000	YES	A,B,C

A=IMMEDIATE (ACUTE) HEALTH HAZARD B=DELAYED (CHRONIC) HEALTH HAZARD
 C=FIRE HAZARD D=SUDDEN RELEASE OF PRESSURE HAZARD E=REACTIVE HAZARD