

Material Safety Data Sheet



ALGAECIDE BROMINATED

SECTION I - IDENTIFICATION

MANUFACTURER'S NAME**Haviland Consumer Products Incorporated**
MANUFACTURER'S ADDRESS421 Ann St., N.W., Grand Rapids, MI 49504
PHONE NUMBER..... (616) 361-6691
EMERGENCY PHONE NUMBER.....CHEMTREC (800) 424-9300
EFFECTIVE DATE.....4/13/01
TRADE NAME.....**ALGAECIDE BROMINATED**
CHEMICAL FAMILY.....Metal Bromide

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
40% Sodium Bromide Water Solution	Not Established	Not Established	7647-15-6

SECTION III - PHYSICAL DATA

BOILING POINT 212°to 234°F
FREEZING POINT 320oF
VAPOUR PRESSURE..... 17.5 mmHg@68F/Aqueous Solution
VAPOUR DENSITY (air=1) Not Applicable
SOLUBILITY IN H2O..... Miscible
ODOUR AND APPEARANCE Clear liquid; little or no odor.
SPECIFIC GRAVITY 1.41
pH..... Not Determined

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATION Will Not Burn
LOWER EXPLOSIVE LIMIT (% by Volume) Not Applicable
UPPER EXPLOSIVE LIMIT (% by Volume) Not Applicable
MEANS OF EXTINCTION.....As for surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES.....Toxic fumes may be liberated. Use self contained breathing apparatus in confined areas.
UNUSUAL FIRE HAZARD.....None Currently Known

Material Safety Data Sheet

SECTION V - HEALTH HAZARD DATA

CARCINOGENICITY, REPRODUCTIVE EFFECTS None
NTP?..... No
IARC MONOGRAPHS?..... No
OVER EXPOSURE EFFECTS None Known.
PRIMARY ROUTE(S) OF ENTRY Inhalation
SPECIFIC FIRST AID PROCEDURES CONTACT: Eyes; Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. Skin; Wash exposed skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get Medical Attention. INGESTION: Give large quantities of water. Do Not induce vomiting. Get Medical Attention. Never give anything by mouth to unconscious person. INHALATION: Remove to fresh air.
EXPOSURE AGGRAVATED MEDICAL CONDITIONS None Currently Known

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY Stable
CONDITIONS TO AVOID Extremely high heat.
INCOMPATIBLE MATERIALS Strong acids & strong oxidizing agents; corrosive to aluminum.
HAZARDOUS DECOMPOSITION PRODUCTS If strongly overheated, may release bromine.
HAZARDOUS POLYMERIZATION Will Not Occur
POLYMERIZATION AVOID Not Applicable

SECTION VII - SPILL OR LEAK PROCEDURE

LEAK AND SPILL PROCEDURES Contain spills. Soak up with inert absorbent, place into appropriately labeled container for disposal.
WASTE DISPOSAL This material is not regulated as a hazardous waste material. However, this product has not been tested by the Toxicity Characteristic Leaching Procedure. Dispose of according to local, state and federal laws and regulations.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION None under normal conditions.
VENTILATION Recommended.
PROTECTIVE GLOVES Rubber or PVC
EYE PROTECTION Chemical goggles.
OTHER PROTECTIVE EQUIPMENT Flowing water source should be available. Prevent contact with skin & clothes by using protective garments.
HANDLING PROCEDURES AND EQUIPMENT Store in well-ventilated cool, dry area. Keep container closed when not in use.

SECTION IX - SPECIAL PRECAUTIONS

HAZARD CLASS None
DOT SHIPPING NAME Nonregulated.
UN NUMBER None
REPORTABLE QUANTITY (RQ) None.

Material Safety Data Sheet

REFERENCES

HMIS RATING; H-1, F-0, R-0, PPE-C EPA
REG. # 3377-54-57787 ZZ3ALBRO