

Material Safety Data Sheet



10% QUAT ALGAECIDE

SECTION I - IDENTIFICATION

MANUFACTURER'S NAME Haviland Consumer Products, Inc.
MANUFACTURER'S ADDRESS 421 Ann St., N.W., Grand Rapids, MI 49504
PHONE NUMBER (616) 361-6691
EMERGENCY PHONE NUMBER CHEMTREC (800) 424-9300
EFFECTIVE DATE 11/11/02
TRADE NAME **10% QUAT ALGAECIDE**
CHEMICAL FAMILY Quaternary Ammonium Compound

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
Alkyl Dimethyl Benzyl (Ammonium Chloride)	Not Established	Not Established	68424-85-1
Ethyl Alcohol	1000ppm	1000ppm	64-17-5

SECTION III - PHYSICAL DATA

BOILING POINT Not Determined
FREEZING POINT Not Determined
VAPOUR PRESSURE Not Determined
VAPOUR DENSITY (air=1) Not Determined
SOLUBILITY IN H₂O Completely
ODOUR AND APPEARANCE Blue; Slight Aromatic odor
SPECIFIC GRAVITY 0.99
pH Not Determined

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATION Not Determined
LOWER EXPLOSIVE LIMIT (% by Volume) Not Determined
UPPER EXPLOSIVE LIMIT (% by Volume) Not Determined
MEANS OF EXTINCTION Dry chemical, water fog, CO₂, foam.
SPECIAL FIRE FIGHTING PROCEDURES Cool fire exposed containers with spray. Must wear MSHA/NIOSH approved self-contained breathing apparatus.
UNUSUAL FIRE HAZARD Explosive mixtures can form with air. Combustion products are toxic. Solvent vapors can travel to an ignition source and flashback.

SECTION V - HEALTH HAZARD DATA

CARCINOGENICITY, REPRODUCTIVE EFFECTS None
NTP? No
IARC MONOGRAPHS? No
OVER EXPOSURE EFFECTS May be fatal if swallowed in large quantities. Circulatory shock, respiratory depression, convulsions.
PRIMARY ROUTE(S) OF ENTRY Eye and Skin Contact
SPECIFIC FIRST AID PROCEDURES In case of eye contact: Flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water; wash contaminated clothing before reuse. If

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inhaled: Remove to fresh air. If swallowed: Immediately drink large quantity of milk, egg white, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call physician immediately.

None Currently Known

EXPOSURE AGGRAVATED MEDICAL
CONDITIONS

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY Stable
CONDITIONS TO AVOID Do not mix with any other chemicals, especially strong oxidizers or reducing agents.
INCOMPATIBLE MATERIALS Soaps, Anionic Detergents
HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen chloride fumes, carbon oxides, nitrogen oxides.
HAZARDOUS POLYMERIZATION Will Not Occur
POLYMERIZATION AVOID Not Applicable

SECTION VII - SPILL OR LEAK PROCEDURE

LEAK AND SPILL PROCEDURES Small Spills: Flush area with large quantities of water. Large Spills: Absorb with compound such as clay and bury material in approved landfill.
WASTE DISPOSAL Incineration. Comply with all federal, state and local regulations.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION None Required
VENTILATION None Required for Normal Use
PROTECTIVE GLOVES Rubber or other impervious materials.
EYE PROTECTION Chemical splash proof goggles.
OTHER PROTECTIVE EQUIPMENT A safety shower and eye bath should be available. For operations where spills or splashing may occur, use an impervious body covering and boots.
HANDLING PROCEDURES AND EQUIPMENT Store in cool, dry, well ventilated area. Keep containers closed when not in use.

SECTION IX - SPECIAL PRECAUTIONS

HAZARD CLASS Corrosive, 8, II
DOT SHIPPING NAME Corrosive Liquid, N.O.S. or ORM-D (1 gallon or less)
UN NUMBER UN1903
REPORTABLE QUANTITY (RQ) Not Listed

REFERENCES

ZZ1ALK10 HMIS H-3 F-2 R-0 EPA REG.#
57787-5