

Material Safety Data Sheet



SILVER ALGAECIDE

SECTION I - IDENTIFICATION

MANUFACTURER'S NAMEHaviland Consumer Products Inc.
MANUFACTURER'S ADDRESS421 Ann St., NW, Grand Rapids, MI 49504
PHONE NUMBER..... (616) 361-6691
EMERGENCY PHONE NUMBERCHEMTREC (800) 424-9300
EFFECTIVE DATE.....7/16/04
TRADE NAME.....**SILVER ALGAECIDE**
CHEMICAL FAMILY.....Quaternary

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
Silver	.01 mg/m3 as silver	.01 mg/m3 as silver	7440-22-4

SECTION III - PHYSICAL DATA

BOILING POINT 212oF
FREEZING POINT 32oF
VAPOUR PRESSURE Not Determined
VAPOUR DENSITY (air=1) Not Determined
SOLUBILITY IN H2O..... Completely
ODOUR AND APPEARANCE Dark Liquid; Slight Odor
SPECIFIC GRAVITY Approx. 1
pH..... Not Established

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 Fires
SPECIAL FIRE FIGHTING PROCEDURES.....None Currently Known
UNUSUAL FIRE HAZARD.....None Currently Known

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SECTION V - HEALTH HAZARD DATA

CARCINOGENICITY, REPRODUCTIVE EFFECTS None
NTP? No
IARC MONOGRAPHS? No
OVER EXPOSURE EFFECTS May be fatal if swallowed. 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 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.
EXPOSURE AGGRAVATED MEDICAL CONDITIONS None Currently Known

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 None
DOT SHIPPING NAME WATER TREATMENT COMPOUND
UN NUMBER None
REPORTABLE QUANTITY (RQ) Not Listed

REFERENCES

ZZ1SLALG
EPA #57787-21