

MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: AUGUST 15, 2000

EnP Inc
Box 618 2001 N Main Street
Mendota, IL 61342
Phone (800) 255-4906
EMERGENCY PHONE NUMBER
(800)424-9300 CHEMTREC

Pro-Tech Algicide and Disinfectant
EPA REG NO 53642-1-73007

SECTION 1 HAZARDOUS INGREDIENTS

	ACGIH TLV/TWA	OSHA PEL
Ethyl Alcohol, denatured: 2.25% CAS #64-17-5	1000 ppm	1000 ppm
N-Alkyl (60%-C14, 30%-C16, 5%-C12, 5% C-18) Dimethyl Benzyl Ammonium Chloride: 10% CAS #68391-01-5	NE	NA
N-Alkyl (68% -C12, 32% -C14) Dimethyl Ethyl Benzyl Ammonium Chloride: 10% CAS # 68956-79-6	NE	NA

SECTION II PHYSICAL DATA

BOILING POINT: 212° F (100° C)	EVAPORATION RATE: NA
VAPOR PRESSURE: NA	SOLUBILITY IN WATER: Complete
PERCENT VOLATILE: -77.5%	APPEARANCE AND ODOR: light amber liquid with Benzaldehyde odor.
VAPOR DENSITY: NA	

SECTION III FIRE AND EXPLOSION HAZARD DATA

FLASH POINT :(Pensky-Martens Closed Cup) 200° F (94° C)
EXPLOSIVE LIMITS: lower: 4% Upper: 19%
AUTO IGNITION TEMPERATURE: NA
EXTINGUISHING MEDIA: Water
SPECIAL FIRE FIGHTING PROCEDURES: None known
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

SECTION IV HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See section 1 for hazardous ingredients present in this product and their corresponding threshold limit values.

ROUTES OF ENTRY:

<u>INHALATION</u>	<u>SKIN</u>	<u>INGESTION</u>
Secondary	Tertiary	Primary

HEALTH HAZARD (ACUTE AND CHRONIC)

SIGNS AND SYMPTOMS OF EXPOSURE:

EYE: Burning, irritation and redness.

SKIN: Burning, irritation and redness.

INHALATION: Mist caused by manufacturing operations irritates nasal passages. Alcohol portion, which can be inhaled or absorbed, must be controlled below TLV. Prolonged inhalation of vapors causes nausea, loss of motor skills, and disorientation.

INGESTION: Irritation, difficulty breathing and circulatory shock — concentrate may be fatal.

Acute Oral LD₅₀ = 1,000 mg/kg (rat).

CARCINOGENICITY:

<u>NTP</u>	<u>IARC MONOGRAPH</u>	<u>OSHA REGULATED</u>
No	No	No

EMERGENCY AND FIRST AID PROCEDURES:

IF SWALLOWED: Drink large quantities of milk, egg white, gelatin or water. Seek medical attention.

IF INHALED: If vapors or mist cause irritation or distress, remove patient to fresh air, Apply artificial respiration if indicated. Seek medical attention.

IF ON SKIN: Wash affected areas with plenty of soap and water. Seek medical attention if irritation persists.

IF IN EYES: Immediately flush with plenty of water. Seek medical attention if irritation persists.

MEDICAL CONDITIONS GENERALLY

AGGRAVATED BY EXPOSURE: Chronic effects and medical conditions aggravated by overexposure to this product have not been established. Unnecessary exposure to this product or any chemical should be avoided. *Consult physician should any symptoms persist.*

SECTION V REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY (materials to avoid): Anionic materials, oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS:
Nitrous oxides and ammoniacal vapors.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain all spills and leaks to prevent discharge into the environment. Prevent electrical sparking. Ventilate area. For small spills, soak up with absorbent, shovel into waste container, flush area with water. For large spills, recover liquid for reprocessing or disposal.

WASTE DISPOSAL METHOD: Recover material or dispose (incineration is preferred) in accordance with all applicable Federal, State, or Local regulations. Material collected with absorbent may be disposed in a permitted landfill in accordance with Federal, State, and Local regulation. Empty containers may retain vapor or product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

EMERGENCY TELEPHONE NUMBER OF
CHEMTREC: (800) 424-9300
(for transportation spills)

SECTION VII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required.
VENTILATION: LOCAL EXHAUST: Use ventilation adequate to keep hazardous ingredients below their TLV.
MECHANICAL: None required. SPECIAL: None required. OTHER: None required.
PROTECTIVE GLOVES: Use rubber or neoprene gloves.

EYE PROTECTION: Wear full face shield or chemical goggles when handling.
OTHER PROTECTIVE EQUIPMENT: Wear protective clothing to prevent repeated or prolonged contact. Eye wash station and safety shower should be near work area.

SECTION VIII SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a dry place at temperatures not lower than 32°F or higher than 120°F.
OTHER PRECAUTIONS: Spilled material is slippery. Wash thoroughly after handling.

SECTION IX HEALTH RATING INFORMATION (NFPA)

HEALTH -2 FLAMMABILITY - 1 REACTIVITY - 1

SECTION X SARA TITLE III/SECTION 313 SUPPLIER NOTIFICATION

CAS#	CHEMICAL NAME	% BY WEIGHT
THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND OF 40 CFR 372:		
THIS PRODUCT CONTAINS NO SECTION 313 CHEMICALS		

SECTION XI DOT SHIPPING INFORMATION

PROPER SHIPPING NAME: Consumer Commodity
HAZARD CLASS: ORM-D
DRUMS SIZE ONLY:
PROPER SHIPPING NAME: disinfectant, corrosive liquid, N.O.S. (Quaternary Ammonium Chloride)
HAZARD CLASS: Corrosive 8

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ID # UN 1903

NA - Not Applicable NE - Not Established PEL - Permissible Exposure Limit ACL - Acceptable Ceiling level
MPC - Maximum Peak Concentration