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WATER MANAGEMENT DIVISION
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MATERIAL SAFETY DATA SHEET

GESSCOCIDE 32*

Revised July 2006

EMERGENCY TELEPHONE NUMBER
Chemtrec 1-800-424-9300

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PRODUCT INFORMATION

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TRADE NAME: GESSCOCIDE 32*
FORMULA: Proprietary blend
CHEMICAL NAMES/SYNONYMS: Alkyl dimethyl benzyl ammonium chloride
DOT Shipping Name: Corrosive liquids, N.O.S., Alkyl dimethylbenzylammonium chloride, 8, UN1760, PGII
DOT Hazard Class: 8, CORROSIVE
Product Use: Cooling Tower Algicide EPA REG # 5185-399-31964
Chemical Family: Quaternary ammonium compound

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PHYSICAL DATA (TYPICAL)

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Appearance: Colorless to light straw colored liquid	pH: 7.0 – 8.0
Odor: Slight	Solubility in Water: Complete
Specific Gravity (H₂O = 1): .994	Boiling Point: Above (F/C) >212/100

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HAZARDOUS INGREDIENTS

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COMPONENTS	%	CAS NO:
Alkyldimethylbenzylammonium chloride	9.2	63449-41-2
Alkyl dimethylbenzylammonium chloride	4.5	68424-85-1
Tributyltin Oxide	3.4	56-35-9
Ethyl Alcohol	1.7	64-17-5
alkyl dimethyl ethylammonium bromide	1.5	68527-84-4

HAZARDOUS COMPONENTS:

EMERGENCY OVERVIEW: DANGER: Highly Corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or safety glasses and rubber gloves when handling this product. Avoid breathing vapors. Remove and wash contaminated clothing before use.

EFFECTS OF OVEREXPOSURE – EYE CONTACT: DANGER: Highly Corrosive. Causes eye damage. Do not get in eyes.

EFFECTS OF OVEREXPOSURE – SKIN CONTACT: DANGER: Highly Corrosive. Causes skin damage. Do not get on skin.

EFFECTS OF OVEREXPOSURE – INHALATION: Irritating to nose and throat. Avoid breathing vapors.

EFFECTS OF OVEREXPOSURE: INGESTION: May be fatal if swallowed.

EFFECTS OF OVEREXPOSURE: - CHRONIC HAZARDS: There are no known chronic hazards.

PRIMARY ROUTE (S) OF ENTRY: Skin contact, Inhalation, Ingestion, Eye Contact.

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FIRST AID MEASURES

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FIRST AID CONTACT: If contact with eyes occurs: Immediately flush with cold water for at least 15 minutes. Then get immediate medical attention.

FIRST AID-SKIN CONTACT; If contact with skin: wash off excess chemical with soap and water and flush skin with cold water for at least 15 minutes. If irritation persists, get medical attention.

FIRST AID – INHALATION: If inhaled: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If not breathing, give artificial respiration. Call a physician immediately.

FIRST AID- INGESTION: If swallowed: Drink large amounts of water. Do not induce vomiting. Avoid alcohol. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician or poison control center. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

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FIRE FIGHTING MEASURES

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Flash Point and Method: None

Flammable Limits:

LEL: N.A.

UEL: N.A.

Autoignition Temperature:

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EXTINGUISHING MEDIA

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UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion are toxic. Heated solvent vapors can travel to an ignition source and flash back.

SPECIAL FIRE-FIGHTING PROCEDURES: Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA). Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

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ACCIDENTAL RELEASE MEASURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Utilizing appropriate clothing and safety equipment, contain spilled material. Cover the liquid with an inert absorbent. Using clean, dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry plastic containers for disposal. Dispose of according to Local, State and Federal regulations.

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HANDLING AND STORAGE

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HANDLING: Mix only with water. Do not mix with other chemicals. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with other chemicals may start a chemical reaction generating heat, hazardous gases, fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well-ventilated area. Flood area with large volumes of water, if necessary.

STORAGE: Keep this product in original closed container when not in use. Store in a cool dry, well-ventilated area away from heat or open flame.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

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Component	Source	Value
Alkyldimethylbenzylammonium chloride	OSHA TWA	NE
	ACGIH TLV	NE
Alkyl dimethylbenzylammonium chloride	OSHA TWA	NE
	ACGIH TLV	NE
Tributyltin Oxide	OSHA TWA	NE
	ACGIH TLV	NE
Alkyl dimethyl ethylammonium bromide	OSHA TWA	NE
	ACGIH TLV	NE

ENGINEERING CONTROLS: General room ventilation plus local exhaust should be used to maintain exposure below TLV.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910-134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Wear rubber gloves when holding this product. Avoid contact with skin.

EYE PROTECTION: Wear goggles or safety glasses with side shields when handling this product.

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eye-wash and a safety shower.

HYGIENIC PRACTICES: Remove and wash contaminated clothing before re-use.

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PHYSICAL AND CHEMICAL PROPERTIES

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Vapor Pressure: Est < 150 mm Hg	Specific Gravity: 0.994
Solubility: Miscible in water	pH: 7.0 – 8.0
Melting Point: Not Applicable	Boiling Point: 212F
Volatility: Est. 40 – 100 cps	Vapor Density (air=1): Is heavier than air
Evaporation Rate (n-Butyl Acetate=1): Is faster than Butyl Acetate	Appearance: Clear
Odor: Musty	
Physical State: Liquid	
Partition Coefficient (n-octanol/water): Not Available	

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STABILITY AND REACTIVITY

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HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal conditions.

CONDITIONS TO AVOID: High temperature Poor Ventilation. Contamination.

INCOMPATIBILITY; Avoid contact with easily oxidizable material. Ammonia, urea, or similar nitrogen containing compounds. Inorganic reducing compounds. Other swimming pool/spa chemical in their concentrated forms.

HAZARDOUS DECOMPOSITION PRODUCTS: Vapors/fumes of organic/inorganic materials plus oxides of carbon may be emitted.

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TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION: Toxicological studies indicate this product to be corrosive to skin and eyes. It is not a mutagen or teratogen. It is not listed as a carcinogen by OSHA, EPA, NTP, or IARC.

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ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product not lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) Permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact you State Water Board or Regional Office of the EPA.

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DISPOSAL CONSIDERATIONS

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DISPOSAL METHOD: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is violation of Federal Law. If these wastes cannot be disposed of use according to label instructions, contact your State Pesticide or Environmental Control Agency or the contaminate water, food, or feed, by storage or disposal or cleaning of equipment. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire. Do not re-use container. Rinse thoroughly before discarding in trash.

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REGULATORY INFORMATION

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FEDERAL:

OSHA (Occupational Safety and Health Act): Product is hazardous by definition of the Hazard Communication Standard.

TSCA (Toxic Substance Control Act): This product or its components are not listed on the TSCA inventory. This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: Isopropyl Alcohol

FIFRA (Federal Insecticide, Fungicide, Rodenticide Act): This product is a registered pesticide.

CERCLA (Comprehensive Response, Compensation and Liability Act): This product or its components are not listed.

SARA (Superfund Amendments and Re-authorization Act):

SARA 313: This product or its components are not listed.

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OTHER INFORMATION

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NFPA; Health: 3 Flammability: 2 Reactivity: 0
HMIS: Health: 3 Flammability: 2 Reactivity: 0 Personal Protection: B

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REVISION SUMMARY

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IMPORTANT: This information is given without a warranty or guarantee. No suggestions for use are intended or shall be construed as are commendation to infringe any existing patents or violate any Federal, State or Local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.