

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **PINE DISINFECTANT** ID NUMBER: 1840 PRODUCT USE/CLASS: DISINFECTANT
MANUFACTURER: Chemical Universe 1133 Saline North Kansas City, MO 64116 EMERGENCY TELEPHONE: 800-424-9300
PREPARED BY: E. Malone PHONE: 816-471-3602 PREPARE DATE: 12/01/03

SECTION II - HAZARDOUS COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WT. PERCENT IS LESS THAN	TLV-TWA	TLV-STEL	PEL-TWA	SKIN DESIGNATION
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	68391-01-5	5.5	N/E	N/E	N/E	NO

(See Section 11 for abbreviation legend)

SECTION III - PHYSICAL DATA

BOILING RANGE: 190 - 212 F VAPOR DENSITY : Is heavier than air ODOR: PINE SPECIFIC GRAVITY: 1.023
APPEARANCE: CLEAR GREEN LIQUID EVAPORATION RATE: Is slower than Ether SOLUBILITY IN H2O : COMPLETE

(See Section XI for abbreviation legend)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >200 F LOWER EXPLOSIVE LIMIT: N.A. UPPER EXPLOSIVE LIMIT: N.A.
(TAGLIABUE CUP CLOSED)

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

SPECIAL FIREFIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE - EYE CONTACT: SEVERE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: IRRITATION.

EFFECTS OF OVEREXPOSURE - INHALATION: OVEREXPOSURE MAY CAUSE DIZZINESS, NAUSEA.

EFFECTS OF OVEREXPOSURE - INGESTION: MAY CAUSE DIZZINESS, NAUSEA. LARGE AMOUNTS MAY HAVE TOXIC EFFECTS.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: No Information.

FIRST AID - EYE CONTACT: FLUSH WITH WATER 15 MINUTES, LIFTING EYELIDS.

FIRST AID - SKIN CONTACT: FLUSH WITH WATER.

FIRST AID - INHALATION: REMOVE TO FRESH AIR.

FIRST AID - INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER OR MILK. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. GET MEDICAL ATTENTION.

PRIMARY ROUTE(S) OF ENTRY: INGESTION EYE CONTACT

(Continued on Page 2)

PRODUCT NAME: **PINE DISINFECTANT**

ID NUMBER: 1840

PRODUCT USE/CLASS: DISINFECTANT

SECTION VI - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS: NORMAL DECOMPOSITION TO CARBON DIOXIDE, CARBON MONOXIDE, NITROUS OXIDE AND AMMONIA VAPORS. CARBON MONOXIDE HAZARDOUS IN ENCLOSED HIGH CONC.

CONDITIONS TO AVOID: STRONG OXIDIZING AGENTS.

INCOMPATIBILITY: ANIONIC SURFACTANTS OR SOAPS.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: PREVENT SPILLS FROM ENTERING SEWERS, OR ANY UNAUTHORIZED WATER SYSTEMS. DIKE FOR RECOVERY OR DISPOSAL. SMALL AMOUNTS, FLUSH TO SEWER.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH APPROPRIATE FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: NIOSH/OSHA APPROVED RESPIRATOR TYPES SUITABLE FOR MATERIALS IN SECTION II RECOMMENDED. APPROVED CHEMICAL/MECHANICAL FILTERS RECOMMENDED WHEN VENTILATION IS RESTRICTED.

VENTILATION: SUFFICIENT VENTILATION, IN VOLUME AND PATTERN, SHOULD BE PROVIDED TO KEEP AIR CONTAMINATION BELOW CURRENT APPLICABLE OSHA PERMISSIBLE EXPOSURE LIMIT OR ACGHI'S TLV LIMIT.

SKIN PROTECTION: GLOVES NEEDED FOR EXTRA SENSITIVE SKIN.

EYE PROTECTION: SAFETY GLASSES OR GOGGLES.

OTHER PROTECTIVE EQUIPMENT: No Information.

HYGENIC PRACTICES: WASH AFTER EACH USE.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN A COOL DRY AREA. KEEP AWAY FROM SPARKS AND OPEN FLAMES.

OTHER PRECAUTIONS: OBEY ALL HAZARD WARNINGS WHEN CONTAINERS ARE EMPTIED.

SECTION X - HMIS RATINGS

HMIS RATINGS	HEALTH: 1	FLAMMABILITY: 0	REACTIVITY: 0
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SECTION XI - OTHER REGULATIONS

SARA SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT %
No SARA Section 313 components exist in this product.		

PREVIOUS MSDS REVISION DATE: 11/16/99

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS is been checked and should be accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

<END OF MSDS>