

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **LPC DRAIN OPENER** ID NUMBER: 1500 PRODUCT USE/CLASS: DRAIN OPENER
MANUFACTURER: CHEMICAL UNIVERSE 1133 SALINE N. KANSAS CITY, MO 64116 TELEPHONE: 816-471-3602
PREPARED BY: D. ACKART EMERGENCY TELEPHONE: 816-820-0332 PREPARE DATE: 12/01/08

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WT. PERCENT IS LESS THAN	TLV-TWA	TLV-STEL	PEL-TWA	SKIN DESIGNATION
ETHYLENE GLYCOL BUTYL ETHER	111-76-2	< 5.0 %	25 ppm	NO INFO	NO INFO	YES
CAUSTIC POTASH	1310-58-3	< 50.0%	2MG/M3	2MG/M3	NO INFO	YES

(See Section 11 for abbreviation legend)

SECTION III - PHYSICAL DATA

BOILING RANGE: 212 - 340 F VAPOR DENSITY: Is heavier than air ODOR: ALKALI SPECIFIC GRAVITY: 1.0305
APPEARANCE: CLEAR YELLOW LIQUID EVAPORATION RATE: Is slower than Ether pH: 13.5 - 14.0 SOLUBILITY IN H2O: COMPLETE
(See Section XI for abbreviation legend)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >250 F LOWER EXPLOSIVE LIMIT: N.A. UPPER EXPLOSIVE LIMIT: N.A.
(TAGLIABUE CUP CLOSED)
EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: EXTINGUISH ALL NEARBY SOURCES OF IGNITION SINCE FLAMMABLE HYDROGEN GAS WILL BE LIBERATED FROM CONTACT WITH SOME METALS (ALUMINUM, MAGNESIUM ETC) CAUSTICS WILL REACT WITH MANY ORGANIC CHEMICALS.

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

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE - EYE CONTACT: MAY IRRITATE OR BURN, BURNS MAY CAUSE BLINDNESS.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: DESTRUCTIVE. OVEREXPOSURE MAY PRODUCE BURNS.

EFFECTS OF OVEREXPOSURE - INHALATION: EXCESSIVE INHALATION MAY DAMAGE RESPIRATORY TRACT. POSSIBLE NAUSEA, DIZZINESS, DIFFICULT BREATHING.

EFFECTS OF OVEREXPOSURE - INGESTION: EXTREMELY CORROSIVE. LARGE QUANTITIES MAY CAUSE SEVERE PAIN, MAUSEA, DEATH.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: NONE KNOWN.

FIRST AID - EYE CONTACT: FLUSH WITH WATER 15-30 MINUTES, LIFTING EYELIDS, GET MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT: FLUSH WITH WATER 15 MINUTES. REMOVE CONTAMINATED CLOTHING. LAUNDRER BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

FIRST AID - INHALATION: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION, GET MEDICAL ATTENTION.

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

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT

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SECTION VI - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS: NORMAL DECOMPOSITION TO CARBON DIOXIDE (CO₂), CARBON MONOXIDE (CO). MAY BE HAZARDOUS IN ENCLOSED HIGH CONCENTRATIONS.

CONDITIONS TO AVOID: ACIDS

INCOMPATIBILITY: ACTIVE METALS, STRONG ACIDS MAY PRODUCE VIOLENT REACTION

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: WEAR APPROPRIATE PROTECTIVE AND RESPIRATORY EQUIPMENT. DIKE FOR RECOVERY OR DISPOSAL.

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 TYPE 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: HEAVY RUBBER GLOVES NEEDED

EYE PROTECTION: CHEMICAL GOGGLES WITH SIDE SHIELD OR FACE SHIELD RECOMMENDED

OTHER PROTECTIVE EQUIPMENT: PREVENT PROLONGED CONTACT. WEAR BOOTS AND IMPERVIOUS EQUIPMENT IF NECESSARY. EYE WASH, SAFETY SHOWER AVAILABLE.

HYGENIC PRACTICES: WASH AFTER EACH USE.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP AWAY FROM SPARKS AND OPEN FLAMES.

OTHER PRECAUTIONS: KEEP CONTAINERS CLOSED. KEEP FROM FREEZING CONDITIONS.

SECTION X - HMIS RATINGS

HMIS RATINGS	HEALTH: 3	FLAMMABILITY: 0	REACTIVITY: 1
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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 %
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PREVIOUS MSDS REVISION DATE: 11/17/01

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)