



SAFETY DATA SHEET

1. Identification

| | | |
|--------------------------------------|--|----------------------------------|
| Product Identifier | LPC | |
| Other means of identification | CU-1500 | |
| Product code | | |
| Recommended use | Liquid pipe cleaner. | |
| Recommended restrictions | Professional use only. | |
| Manufacturer information | | |
| Company name | Chemical Universe, Inc. | |
| Address | 1841 Vernon St. North Kansas City, MO 64116 | |
| Telephone | (816) 471-3602 | |
| Fax | (816) 474-3302 | |
| Emergency phone number | PERS 24-hour Emergency | (800) 633-8253 (800) 633-8253 |

2. Hazard(s) Identification

| | | |
|------------------------------|--|---|
| Physical hazards | Not classified. | |
| Health hazards | Acute toxicity, oral Serious eye damage Skin corrosion | Category 4 Category 1 Category 1B |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | None. | |
| Label elements | | |



| | |
|--------------------------------|--|
| Signal word | DANGER |
| Hazard statement | Harmful if swallowed. Causes severe skin burns and eye damage. |
| Precautionary statement | |
| Prevention | Wash hands and exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe dust or mists. Wear protective gloves/protective clothing/eye protection/face protection. |
| Response | IF SWALLOWED: Immediately call a poison center/doctor/medical professional. Specific treatment: see first aid instructions in section 4 on the Safety Data Sheet. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Storage | Store locked up. |
| Disposal | Dispose of contents/containers in accordance with local/regional/national/international regulations. |



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Hazard(s) not otherwise classified (HNOC) None.
Supplemental information None.

3. Composition/information on ingredients

| Mixture Component(s) | | |
|--|------------|-------|
| Chemical name | CAS number | % |
| Potassium Hydroxide | 1310-58-3 | 15-25 |
| Other components below reportable levels | | 75-85 |

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Neutralize burns with vinegar. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do so. Immediately call a physician or transport to hospital.
Ingestion Rinse mouth. Get medical attention immediately. Do not induce vomiting.
Most important symptoms/effects, acute and delayed Can cause serious eye damage. Can cause burning sensation in affected areas. Shortness of breath, respiratory tract irritation or damage. Potassium hydroxide is extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes, and skin.
Indication of immediate medical attention and special treatment needed Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. Use with extreme caution.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).
Unsuitable extinguishing media None reported in literature.
Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.
Fire-fighting equipment/instructions Move containers from fire area if you can do so without risk.
Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.



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Methods and materials for containment and cleaning up

This product is fully miscible in water.

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small spills: Wipe up with absorbent material (e.g. cloth, sorbent wipes). Clean surface thoroughly with soap and water to remove residual contamination.

Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into areas not consistent with package labeling.

7. Handling and storage

Precautions for safe handling

Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value |
|---------------------|------|---------------------|
| Potassium Hydroxide | PEL | 2 mg/m ³ |

US ACGIH Threshold Limit Values

| Components | Type | Value |
|---------------------|------|---------------------|
| Potassium Hydroxide | STEL | 2 mg/m ³ |

Biological limit values

No information.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level. It is recommended that users of this product perform a risk assessment to determine the appropriate personal protective equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Wear safety glasses with side shields (or face shield and goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Nitrile and PVC are recommended barrier materials

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke or use chewing tobacco. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or



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smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

| | |
|--|----------------------------|
| Appearance | |
| Physical State | Translucent liquid. |
| Color | Yellow. |
| Odor | Characteristic. |
| Odor threshold | Not available. |
| pH | 14 |
| Melting/freezing point | -29.2°F (-34°C) estimated. |
| Initial boiling point and boiling range | 246°F (118.9°C) estimated. |
| Flash point | Not applicable. |
| Evaporation rate | Not available. |
| Flammability | Not available. |
| Flammability Limits | |
| Upper | Not available. |
| Lower | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Specific gravity (water=1) | 1.23 |
| Solubility in water | Soluble. |
| Partition coefficient (n-octanol/water) | Not applicable |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |

10. Stability and reactivity

| | |
|---|---|
| Reactivity | This product is stable and non-reactive under normal conditions of use. |
| Chemical stability | Material is stable under normal conditions. Store in a cool dark place. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur |
| Conditions to avoid | Avoid storage in elevated temperatures. |
| Incompatible materials | Bases, amines, metals. |
| Hazardous decomposition products | No hazardous decomposition products occur. In case of fire see section 5. |

11. Toxicological information

| | |
|---|---|
| Information on likely routes of exposure | |
| Ingestion | Do not ingest. May be harmful if swallowed. |
| Inhalation | Do not inhale. May cause damage to the upper respiratory tract. |
| Skin contact | Can cause severe skin burns. |
| Eye contact | Can cause serious eye damage. |



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Symptoms related to the physical, chemical and toxicological characteristics

Burning sensation, coughing, wheezing, shortness of breath. Potassium hydroxide is extremely destructive to mucous membranes and upper respiratory tract, eyes, and skin.

Acute toxicity

Harmful if swallowed.

| Product LPC (CAS mixture) | | |
|--|-------------------|---------------------------|
| | Route and Species | LD ₅₀ |
| Acute | Oral, rat | > 2,480 mg/kg (estimated) |
| *Estimates for product may be based on additional component data not shown | | |

Skin corrosion/irritation

Can cause severe skin burns.

Serious eye damage/irritation

Can cause serious eye damage.

Respiratory sensitization

Not considered a respiratory sensitizer.

Skin sensitization

Not considered a skin sensitizer.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Not considered a carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not Listed.

Reproductive toxicity

No data available.

Specific target organ toxicity – single exposure

May cause damage to the upper respiratory tract with prolonged inhalation.

Specific target organ toxicity – repeated exposure

No data available.

Aspiration hazard

No data available.

12. Ecological information

| Ecotoxicity | | |
|--|-------------------|---|
| Product | LPC (CAS mixture) | |
| Aquatic Receptor | Species | Test Threshold |
| Fish | Fathead minnow | LC ₅₀ = 302 mg/L (estimated) |
| Crustacea | Daphnia Magna | EC ₅₀ = 100 mg/L (estimated) |
| *Estimates for product may be based on additional component data not shown | | |

Persistence and degradability

Active components of this product will degrade readily in an open environment

Bio-accumulative potential

Components of this product will not accumulate in biological systems

Mobility in soil

No data available. As an ionizable fraction, H₃PO₄ will exhibit high mobility in saturated and semi-saturated soils (short-term)

Other adverse effects

Harmful to aquatic organisms in elevated concentrations. Specific toxicity threshold cannot be derived as the potential effects are highly dependent upon the pH of the receiving water and its buffer capacity highly variable

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations



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Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company. As packaged, this product may meet criteria defining RCRA corrosive (D002) hazardous wastes when disposed. (40 CFR Part 261, Subpart C)

Waste from residues/unused product Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.

14. Transport information

USDOT

| | |
|-----------------------------------|---|
| UN number | UN1760 |
| UN proper shipping name | Corrosive liquids, n.o.s. (contains: Potassium hydroxide) |
| Transport hazard class(es) | |
| Class | 8 |
| Subsidiary risk | - |
| Packaging group | III |
| Marine pollutant | No |

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not intended to be transported in bulk.

DOT Label/Placard



15. Regulatory information

US federal regulations

SARA 302 Extremely hazardous substance Not listed.

SARA 304 Emergency release notification Not listed.

SARA 311/312 Hazard Categories

- Immediate Hazard - Yes
- Delayed Hazard – No
- Fire Hazard – No
- Pressure Hazard – No
- Reactivity Hazard – No

SARA 313 (TRI reporting) Not listed.



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California Proposition 65 **California Safe Drinking Water and Toxic Enforcement Act of 1986**
This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to threshold determination and Safe Harbor notification (1/2019)

16. Other information, including date of preparation or last revision

Issue date 10/13/2014
Revision date 4/2/2019
Version # 2
HMIS® ratings Health: 2
Flammability: 0
Physical hazard: 0



NFPA ratings Health: 2
Flammability: 0
Instability: 0



Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified.

Revision information 4/2/2019
General format update, Prop 65 statement; Update toxicology, PPE and environmental fate information; PPE notations; Composition chart update; Physical data update; miscellaneous text corrections; HMIS and NFPA pictograms inserted