



SAFETY DATA SHEET

1. Identification

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| Product Identifier | Laundry Sanitizer | |
| Other means of identification | | |
| Product code | CU-7270 | |
| Recommended use | Quaternary sanitizer for laundry. | |
| Recommended restrictions | Professional use only. | |
| Manufacturer information | | |
| Company name | Chemical Universe, Inc. | |
| Address | 1133 Saline St. North Kansas City, MO 64116 | |
| Telephone | (816) 471-3602 | |
| Fax | (816) 474-3302 | |
| Emergency phone number | PERS | (800) 633-8253 |
| | 24 hour Emergency | (800) 633-8253 |

2. Hazard(s) Identification

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|------------------------------|----------------------------|------------|
| Physical hazards | Not classified. | |
| Health hazards | Acute toxicity, oral | Category 5 |
| | Acute toxicity, inhalation | Category 4 |
| | Serious eye damage | Category 1 |
| | Skin corrosion | Category 1 |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | None | |
| Label elements | | |



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| Signal word | Danger | |
| Hazard statement | May be harmful if swallowed. Harmful if inhaled. 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. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. | |
| Response | Call a POISON CENTER/ doctor/medical professional if you feel unwell. 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. Call a POISON CENTER/doctor/medical professional if you feel unwell. Specific treatment (see section 4 on the Safety Data Sheet). 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. | |
| Hazard(s) not otherwise classified (HNOC) | None. | |
| Supplemental information | None. | |

3. Composition/information on ingredients

Mixtures

| Chemical name | CAS number | % |
|---|------------|--------|
| Alkyl dimethyl benzyl ammonium chloride (C12-18) | 68391-01-5 | 5 |
| Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14) | 85409-23-0 | 5 |
| Other components below reportable levels | | 90-100 |

4. First-aid measures

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| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. Harmful if inhaled. |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. 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. Hydrochloric acid 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. Note to physician: If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed (hydrogen chloride gas). |
| 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

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| 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. |
| Methods and materials for containment and cleaning up | This product is 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, fleece). Clean surface thoroughly 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.
DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS). PESTICIDE STORAGE: Store in a dry place no lower in temperature than 50°F or higher than 120°F.

8. Exposure controls/personal protection

Occupational exposure limits No information.

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 goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

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 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 Liquid.

Color Colorless to Red

Odor Characteristic

Odor threshold Not available.

pH 7-8

Melting/freezing point Not available.

Initial boiling point and boiling range 200°F (93.3°C) estimated.

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| Flash point | >201°F (93.9°C) estimated. |
| 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) | 0.99 |
| Solubility in water | Soluble. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Decomposes on heating. |
| Viscosity | Not available. |

10. Stability and reactivity

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| 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. Keep away from heat, sparks, and open flame. |
| Incompatible materials | Strong oxidizing agents, anionic surfactants. |
| Hazardous decomposition products | Oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide, and other low molecular weight hydrocarbons. |

11. Toxicological information

Information on likely routes of exposure

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| Ingestion | Do not ingest. Harmful if swallowed. |
| Inhalation | Avoid inhaling mists. Harmful if inhaled. |
| Skin contact | Can cause severe skin burns. |
| Eye contact | Can cause serious eye damage. |
| Symptoms related to the physical, chemical and toxicological characteristics | Burning sensation, coughing, wheezing, and shortness of breath. |
| Acute toxicity | Harmful if swallowed or inhaled. |

| Product | Route and Species | LD₅₀ |
|---------------------------------|--------------------------|------------------------|
| Laundry Sanitizer (CAS mixture) | | |
| Acute | <i>Oral, rat</i> | 2,750 mg/kg estimated |
| | <i>Dermal, rabbit</i> | >5,000 mg/kg estimated |
| | <i>Inhalation, rat</i> | 4.69 mg/L estimated |

*Estimates for product may be based on additional component data not shown

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| Skin corrosion/irritation | Can cause severe skin burns. |
| Serious eye damage/irritation | Can cause serious eye damage. |
| Respiratory sensitization | Not considered a respiratory sensitizer. |

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| 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 | No data available. |
| Specific target organ toxicity – repeated exposure | No data available. |
| Aspiration hazard | No data available. |

12. Ecological information

Ecotoxicity

| Product | Species | Test Results |
|---------------------------------|----------------|---------------------------------------|
| Laundry Sanitizer (CAS mixture) | | |
| Aquatic | | |
| Fish | Fathead Minnow | LC ₅₀ =6.8 mg/L estimated |
| Crustacea | Daphnia | EC ₅₀ =0.13 mg/L estimated |

*Estimates for product may be based on additional component data not shown

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| Persistence and degradability | Readily biodegradable. |
| Bioaccumulative potential | Accumulation in aquatic organisms is expected. Harmful to aquatic life. |
| Partition coefficient n-octanol/water (log K_{ow}) | Not available. |
| Mobility in soil | No data available. |
| Other adverse effects | Very toxic to aquatic life. Harmful to plants wildlife with long lasting effects. |

13. Disposal considerations

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| 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. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| 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

DOT

Not regulated as dangerous goods.

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.

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

| | |
|-----------------------------|---|
| Issue date | 4/1/2015 |
| Revision date | 4/1/2015 |
| Version # | 1 |
| HMIS® ratings | Health: 3 Flammability: 1 Physical hazard: 0 |
| NFPA ratings | Health: 3 Flammability: 1 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 by the text. |
| Revision information | First issue |