



SAFETY DATA SHEET

1. Identification

| | |
|---|---|
| Product Identifier | Q-64 Disinfectant Cleaner and Deodorizer |
| Other means of identification Product code | CU-1820, 4-BPNP, 4-CLLE, 104-CLL, 4-CJRL, |
| Recommended use | Quaternary disinfectant cleaner and deodorizer. |
| 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 |

2. Hazard(s) Identification

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



| | |
|--------------------------------|--|
| Signal word | DANGER |
| Hazard statement | 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 | IF SWALLOWED: 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. This product is a registered pesticide under USEPA FIFRA registry. Dispose in accordance with labels direction and/or applicable state/local rule and regulation. |



SAFETY DATA SHEET

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

Supplemental information None.

3. Composition/information on ingredients

| Mixture Component(s) | | |
|--|------------|-------|
| Chemical name | CAS number | % |
| Alkyl dimethyl benzyl ammonium chloride (C12-16) | 68424-85-1 | 2.17 |
| Octyl decyl dimethyl ammonium chloride | 32426-11-2 | 1.627 |
| Dodecyl dimethyl ammonium chloride | 7173-51-5 | 0.814 |
| Diocetyl dimethyl ammonium chloride | 5538-94-3 | 0.814 |
| Other components below reportable levels | | 94-95 |

4. First-aid measures

| | |
|---|---|
| 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. |
| 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

| | |
|--|---|
| 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

| | |
|---|---|
| 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. |
|---|---|



SAFETY DATA SHEET

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, absorbent wipes). Clean surface thoroughly with 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

Do not discharge effluent containing this product into lakes, streams, ponds, 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 your State Water Board or Regional Office of the EPA.

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

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

| Components | Type | Value |
|---------------|------|-----------|
| Ethyl alcohol | STEL | 1,000 ppm |
| Ethyl alcohol | PEL | 1,000 ppm |

US ACGIH Threshold Limit Values

| Components | Type | Value |
|---------------|--------------|-----------|
| Ethyl alcohol | TWA (8-Hour) | 1,000 ppm |

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

The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Suggested protective materials: Nitrile and PVC rubber.

Other

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



SAFETY DATA SHEET

| | |
|---------------------------------------|--|
| 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 | Pale yellow |
| Odor | Pleasant, slightly ammoniacal |
| Odor threshold | Not available. |
| pH | 6-7 |
| Melting/freezing point | Not available. |
| Initial boiling point and boiling range | 200°F (93.3°C) estimated. |
| 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) | 1.0 |
| 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

| | |
|---|---|
| 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

| | |
|---------------------|---|
| 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. |



SAFETY DATA SHEET

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 Q-64 Disinfectant Cleaner and Deodorizer (CAS mixture) | | |
|--|-------------------|-------------------------------------|
| Exposure Classification | Route and Species | LD ₅₀ / LC ₅₀ |
| Acute | Oral, rat | 459.6 mg/kg (estimated) |
| Acute | Dermal, rabbit | >5,000 mg/kg (estimated) |
| Acute | Inhalation, rat | 4.69 mg/L (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 | No data available. |
| Specific target organ toxicity – repeated exposure | No data available. |
| Aspiration hazard | No data available. |

12. Ecological information

| Ecotoxicity |
|---|
| Active components of this product are very toxic to aquatic life with long lasting effects. |

| | |
|---|--|
| 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 applicable. |
| Mobility in soil | No data available. Chemicals of these classes are highly water soluble and will partition readily to water and weakly to particles in low-clay soil matrices. They are expected to exhibit moderate to high mobility in saturated and semi-saturated soils |
| Other adverse effects | No other adverse environmental effects known (<i>i.e.</i> , ozone depleting substance, tropospheric ozone precursor, greenhouse gas emission, endocrine disruptor, or other deleterious environmental effect) |

13. Disposal considerations

| | |
|-----------------------------------|---|
| Disposal instructions | PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or reinstatement is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. CONTAINER DISPOSAL - Nonrefillable Container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse empty container with water. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill. This product is a registered pesticide under USEPA FIFRA registry. Dispose in accordance with labels direction and/or applicable state/local rule and regulation. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. As packaged, this product is not believed to meet criteria defining RCRA hazardous wastes when disposed. (40 CFR Part |



SAFETY DATA SHEET

| | |
|---|---|
| | 261, Subpart C). Before selecting disposal method, ensure that the waste materials have been properly assessed and, as necessary, tested to confirm regulatory status. |
| 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

USDOT Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

FIFRA - This product is a pesticide registered with the USEPA under authority of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). EPA product registration number is **1839-169-74357**

TSCA – All chemical components used to manufacture this product comply with the Toxic Substances Control Act (TSCA) registry requirements and are either listed within, or exempted from, the current TSCA 8(b) inventory.

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.

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 (3/2021)

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

| | |
|----------------------|--|
| Issue date | 10/16/2014 |
| Revision date | 3/26/2021 |
| Version # | 4 |
| HMIS® ratings | Health: 3 Flammability: 1 Physical hazard: 0 |

SAFETY DATA SHEET

| | |
|---------------------|--------------------------|
| HEALTH | 3 |
| FLAMMABILITY | 1 |
| REACTIVITY | 0 |
| PERSONAL PROTECTION | <input type="checkbox"/> |

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

Update toxicity data; General format update; Refine composition table, amend physical data; Update toxicology thresholds and environmental fate information; Text clarification amendments Sections 5,6,8,9 and 12. PPE recommendation updated; California Proposition 65 notice; HMIS and NFPA pictograms added. Add TSCA and FIFRA statements. Amended Section 6 environmental precautions language.