



SAFETY DATA SHEET

1. Identification

Product Identifier	Pine-64 Disinfectant Cleaner and Deodorizer	
Other means of identification	CU-1840	
Product code		
Recommended use	Quaternary disinfectant cleaner and deodorizer.	
Recommended restrictions	Professional use only. Use as directed	
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 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.



SAFETY DATA SHEET

Disposal	This product is a registered pesticide. Dispose of contents/containers in accordance with labeling and local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None.
Supplemental information	This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

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
Didecyl dimethyl ammonium chloride	7173-51-5	0.814
Dioctyldimethylammonium chloride	5538-94-3	0.814
Other components below reportable levels		90-96

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. 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

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 liquid-sourced 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.



SAFETY DATA SHEET

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.

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

Avoid discharge into sewers, stormwater systems, surface drainage paths and other 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

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



SAFETY DATA SHEET

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.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory protection 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	Yellow.
Odor	Pine/terpene odor
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.



SAFETY DATA SHEET

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.

Symptoms related to the physical, chemical and toxicological characteristics Burning sensation, coughing, wheezing, and shortness of breath.

Acute toxicity Harmful if swallowed or inhaled.

Pine-64 Disinfectant Cleaner and Deodorizer (CAS mixture)		
Exposure Classification	Route and Species	LD ₅₀ /LC ₅₀
Acute	<i>Oral, rat</i>	459.6 mg/kg (estimated)
Acute	<i>Dermal, rabbit</i>	>5,000 mg/kg (estimated)
Acute	<i>Inhalation, rat</i>	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
Not classified. 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.e. ozone depleting substance, tropospheric ozone precursor, greenhouse gas emission, endocrine disruptor or other deleterious environmental effect*)



SAFETY DATA SHEET

13. Disposal considerations

Disposal instructions	PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate 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.
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. As packaged, this product is not believed to meet criteria defining RCRA hazardous wastes when disposed. (40 CFR Part 261, Subpart C). Before selecting disposal method, ensure that the waste materials have been properly assessed and, as necessary, tested to confirm regulatory status.
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

This product is registered with the United States Environmental Protection Agency under provisions of the Federal Insecticide, Fungicide and Rodenticide Act. EPA Product Registration No. 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.

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.

California Proposition 65



WARNING: This product can expose you to Ethyl alcohol, which is known to the State of California to cause developmental harm. For more information go to www.P65Warnings.ca.gov

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

Issue date 10/16/2014
Revision date 4/22/2019, 3/20/2020
Version # 2
HMIS® ratings Health: 3
 Flammability: 0
 Physical hazard: 0



NFPA ratings

Health: 3
 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 by the text.

Revision information

4/22/2019 Change NFPA and HMIS flammability category from 1 to 0 (no flash below 200°F). 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. EPA product registration added.
 3/20/2020 Updated Prop 65 language/notice. Add TSCA and FIFRA language