



SAFETY DATA SHEET

1. Identification

Product Identifier	Flower Power 32 Disinfectant	
Other means of identification	CU-1880	
Product code		
Recommended use	Quaternary disinfectant cleaner and deodorizer.	
Recommended restrictions	Professional use only. Use only as directed	
Manufacturer information		
Company name	Chemical Universe, Inc.	
Address	1133 Saline St. North Kansas City, MO 64116	
Telephone	(816) 471-3602	
Emergency phone number	PERS (800) 633-8253	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 1C
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.



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Storage	Store locked up. Keep containers closed and away from unauthorized personnel
Disposal	Dispose of contents/containers in accordance with local/regional/national/international regulations. This product is a registered pesticide and is hazardous to the environment. Dispose in accordance with label directions, or contact your regional EPA
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	1.08
Octyl decyl dimethyl ammonium chloride	32426-11-2	1.02
Didecyl dimethyl ammonium chloride	7173-51-5	0.41
Diocetyl dimethyl ammonium chloride	5538-94-3	0.41
Ethanol	64-17-5	0.34
Other components below reportable levels		95-96

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 any liquid-fueled 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.



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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.

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, general purpose absorbent 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. The product contains an EPA TSCA-registered disinfectant. Do not discharge un-used product to municipal sewers without authorization.

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



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Hand protection	Wear appropriate chemical resistant gloves PVC and Nitrile/butyl rubber are recommended 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 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. Detectable ammonia 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 applicable
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.



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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.

Product Flower Power 32 (CAS mixture)		
Exposure Classification	Route and Species	LD50
Acute	Oral, rat	839 mg/kg (estimated)
Acute	Dermal, rabbit	>5,000 mg/kg (estimated)
Acute	Inhalation, rat	7.52 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 chemical components are toxic to aquatic life with long lasting effects

Persistence and degradability	Readily biodegradable in an aerobic environment.
Bioaccumulative potential	Not available. Not expected to readily accumulate in biological systems. Easily oxidized and highly water-soluble
Partition coefficient n-octanol/water (log K_{ow})	Not applicable; No bi-phasic components in solution
Mobility in soil	No data available. Expected to be highly mobile in saturated or partially-saturated soils



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Other adverse effects Not available.

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. 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.
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.

Local disposal regulations Dispose in accordance with all applicable regulations. This product contains a TSCA-registered disinfectant chemical and is subject to restrictions

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

US 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.

California
Proposition
65



WARNING This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

