SAFETY DATA SHEET

1. Identification

Product Identifier	**Sani-T Hard Surface Sanitizer**	
Other means of identification	CU-5240, 5240-BPNP, 5240-CLL	
Product code		
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 (GHS)

This product contains a pesticide chemical registered with the United States Environmental Protection Agency and is subject to specific labeli8ng requirements under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). Those labeling requirements differ from the GHS classification criteria and hazard identification statements used in GHS-standard safety data sheets for non-pesticide chemicals.

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	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

Mixture Component(s)		
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

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 a liquid-sourced fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed (hydrogen chloride, carbon monoxide and ammonia 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.

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 Fuller's earth and place into containers. Prevent entry into surface waterways, sanitary sewers, 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 with water to remove residual contamination.

Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS. This product is a registered pesticide under USEPA FIFRA registry. Dispose in accordance with labels direction and/or applicable state/local rule and regulation.

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. PVC and nitrile 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 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, slight ammoniacal
Odor threshold	Not available.
pH	7-8
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)	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

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 high temperature and ignition sources.
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.
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 Sani-T Hard Surface Sanitizer (CAS mixture)		
Exposure Classification	**Route and Species**	**LD_{50}/ LC_{50}**
Acute	*Oral*, rat	2,750 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		
Product Sani-T Hard Surface Sanitizer (CAS mixture)		
Aquatic	**Species**	**Test Results**
Fish	Fathead Minnow	LC_{50}= 4.2 mg/L – 92-hour (Estimated)
Crustacea	Daphnia magna	EC_{50}=0.13 mg/L (Estimated)
Algae	Dynophyceae	EC_{50}=0.35 mg/L 96-hr. (Estimated)
*Estimates for product may be based on additional component data not shown		

Persistence and degradability	Readily degradable in a toxic environment.
Bioaccumulative potential	Accumulation in aquatic organisms is expected. Harmful to aquatic life.
Partition coefficient n-octanol/water (log K_{ow})	This class of chemicals will partition readily to aqueous compartment.
Mobility in soil	No data available. Expected to exhibit moderate to high mobility in saturated soils
Other adverse effects	Very toxic to aquatic life. Harmful to plants wildlife with long lasting 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*)

13. Disposal considerations

Disposal instructions	PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or reinstate 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.
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

FIFRA -This product is a pesticide regulated by the USEPA under authority of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). EPA product registration number is **1839-100-74357**

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 (12/2019)

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

Issue date	4/1/2015
Revision date	2/19/2019, 3/3/2020
Version #	3
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 0

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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

2/19/2019
Acute toxicity category 5 to 4, general format update, insert FIFRA statement, Prop 65 statement, HMIS and NFPA pictograms; Disposal instruction update; Environmental response detail update; Personal protection materials inserted; Remove flammability class 1 from NFPA and HMIS descriptions (non-combustible liquid)
3/3/2020 Minor additions to fate and environmental risk language