

1. Identification

Product Identifier Surface TB Hard Surface Disinfectant

Other means of identification

Product code CU-1862

Recommended use Ready to use disinfectant.

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

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

None.

Skin irritant Category 2
Serious eye irritation Category 2A

Environmental hazards Not classified.

OSHA defined hazards

Label elements



Signal word WARNING

Hazard statement Causes mild skin irritation.

Causes serious eye irritation. May be harmful if swallowed

Precautionary statement

Prevention Wear eye protection/face protection.

Response If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if

present and easy to do. Continue Rinsing. Immediately call a POISON

CENTER/doctor/medical professional.

IF SWALLOWED: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce

vomiting.

Storage No prescriptive instruction

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.

Hazard(s) not otherwise

classified (HNOC)

None.

Supplemental information None.



3. Composition/information on ingredients

Mixture Component(s)			
Chemical name	CAS number	%	
Diethylene glycol monobutyl ether	112-34-5	8	
Alkyl (68% C12, 32% C14) ammonium chloride	85409-23-0	0.105	
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	0.105	
Other components below reportable levels		92-95	

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

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.

Dermatitis. Rash. May cause an allergic skin reaction.

Ingestion Rinse mouth. Get medical attention immediately. Do not induce vomiting.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

General information

Provide general support measures and treat symptomatically. Keep victim under

observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions

to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂)

Unsuitable extinguishing

media

During fire, gases hazardous to health may be formed.

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment

and precautions for

firefighters Fire-fighting

Specific methods

equipment/instructions

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protecting clothing must be worn in case of

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 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. 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

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.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see section 10 of the Safety Data Sheet).

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

 PEL
 1,000 ppm

US ACGIH Threshold Limit Values

ComponentsTypeValueEthyl alcoholTWA (8-Hour)1,000 ppm2-(2-butoxyethoxy)ethanolTWA (8-Hour)10 ppm

Biological limit values Not classified.

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 protectionThe 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 a chemically- impervious apron is

recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory

protection will not typically be indicated for prescribed use of this product

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 Citrus/floral Odor Odor threshold Not available. 12-12 5

Melting/freezing point 32°F (0°C) estimated. >212°F (>100°C) estimated.

Initial boiling point and

boiling range

Flash point >212°F (>100°C) estimated.

Evaporation rate Not available. Not available. Flammability

Flammability Limits

Not available. Upper Lower Not available. Not available. Vapor pressure Not available. Vapor density

1.01 Specific gravity (water=1) Solubility in water Soluble. **Partition coefficient** Not available.

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. 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.

Incompatible materials Bases, amines, metals.



Hazardous decomposition products

No hazardous decomposition products occur. In case of fire see section 5.

11. Toxicological information

Information on likely routes

of exposure

Ingestion Do not ingest. May be harmful if swallowed.

Inhalation Do not inhale. May cause damage to the upper respiratory tract.

Skin contact Can cause skin irritation with persistent contact.

Eye contact Can cause serious eye irritation. Wear appropriate protective eyewear (see section 8).

Symptoms related to the physical, chemical and toxicological characteristics Dermatitis. Rash. May cause an allergic skin reaction.

Not classified. **Acute toxicity**

Product Surface TB Hard Surf	ace Disinfectant (CAS mixture)	
Exposure Classification	Route and Species	LD ₅₀ /LC ₅₀
Acute	Oral, rat	>6,300 mg/kg (estimated)
Acute	Dermal, rabbit	> 9,500 mg/kg (estimated)
Acute	Inhalation. Rat	> 375 mg/L (Literature)
*Estimates for product may be	e based on additional component data	not shown

Skin corrosion/irritation Causes mild skin irritation. Serious eye damage/irritation Causes serious eye irritation.

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 Surface TB Hard Surface Disinfectant (CAS mixture)				
Aquatic Receptor	Species	Test Thresholds		
Fish	Fathead Minnow	LC ₅₀ =243 mg/L (estimated)		
Fish	Lepomis macrochirus	LC ₅₀ >940 mg/L (estimated)		
Crustacea	Daphnia magna	EC ₅₀ =6 mg/L (estimated)		

Persistence and degradability

No data available. Chemicals of this class are not expected to be persistent in an open, aerobic environment

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Bio-accumulative potential Not data available. Components are highly water-soluble and not

expected to accumulate in dynamic biological systems

Partition coefficient n-octanol/water (log Kow)

Mobility in soil

Not available.

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 Harmful to plants or wildlife in highly concentrated solutions. 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.

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. This product is an EPA-registered

pesticide. Disposal restrictions apply.

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 consistent with contact pesticides (see: Disposal instructions).

Contaminated packaging 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.

14. Transport information

USDOT Not classified as dangerous goods.

15. Regulatory information

US federal regulations

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.

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: **1839-83-74357**

SARA 302 Extremely hazardous substance Not listed.
SARA 304 Emergency release notification Not listed.

SARA 311/312 Hazard Categories

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CUISOLUTIONS

SAFETY DATA SHEET

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 4/1/2015

Revision date 7/10/2019, 3/18/2020, 3/27/2020

Version # 4

HMIS® ratings Health: 1

Flammability: 0
Physical hazard: 0



PERSONAL PROTECTION

NFPA ratings Health: 1

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

Change skin irritant category from 3 to 2 (definition); Reduce eye irritation category from 1 (raw product BTC) to 2A to reflect dilution of 4 orders of magnitude in final product; Eliminate corrosive pictogram; Insert Exclamation point pictogram. Signal word change from DANGER to WARNING; Add Acute Toxicity category 4 – Raw BTC product GHS



category bridge. Added hazard statement for Cat 4 Oral Toxicity insertion. 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. Inserted Section 1 Disposal instructions 1/22/2020 Dye removed from formula; Changed product name to include Dye Free suffix 3/18/2020 Add pesticide registry notification and TSCA registry language. 3/27/2020 Amend environmental fate language; Add exposure table information (ethanol and 2-(2-butoxyethoxy)ethanol.