

1. Identification

Product Identifier Liquid Live Original

Other means of identification

Product code CU-1400

Recommended use Non-pathogenic bacteria spotter and drain cleaner.

Recommended restrictions

Manufacturer information

Company name

Chemical Universe, Inc.

Address 1133 Saline St.

North Kansas City, MO 64116

Professional use only. Use as directed

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 Skin irritant Category 2

Environmental hazards Not classified OSHA defined hazards Not listed.

Label elements None.

Signal word WARNING

Hazard statement Causes skin irritation.

Precautionary statement

Prevention

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

Storage No special instructions
Disposal No special instructions

Hazard(s) not otherwise

classified (HNOC)

None.

Supplemental information None.

3. Composition/information on ingredients

Mixture Component(s)			
Chemical name	CAS number	%	
2-butoxyethanol	111-76-2	1-2	
Other components below reportable levels		97-99	

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.

Get medical attention. Eye wash stations should be located in work area.

Ingestion Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.



Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and

special treatment needed

General information

Dermatitis. Rash. May cause an allergic skin reaction.

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. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

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

None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for

firefighters

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

Fire-fighting

equipment/instructions

Specific methods General fire hazards Move containers from fire area if you can do so without risk.

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

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Methods and materials for Wear appropriate protective equipment and clothing during clean-up. Wear eye/face protection.

containment and cleaning up

Caution – spillages may be slippery.

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent

entry into waterways, sewer, basements or confined areas.

Small spills: Wipe up with absorbent material (e.g. cloth, or textile 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.

Do not release into the environment (see section 12). Avoid discharge into areas not **Environmental precautions**

consistent with package labeling.

7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate

personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any

incompatibilities

Store in original tightly closed container. Do not store in extreme conditions.



8. Exposure controls/personal protection

Occupational exposure limits

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

ComponentsTypeValue2-butoxyethanolPEL50 ppm

US ACGIH Threshold Limit Values

ComponentsTypeValue2-butoxyethanolSTEL20 ppm

Biological limit values

ACGIH Biological Exposure Indices

ComponentsValueDeterminantSpeciesSampling Time2-butoxyethanol200 mg/gCreatinineUrineEnd of shift.

Appropriate engineering

Emergency eye wash stations and showers should be readily accessible. Provide natural or

controls

mechanical ventilation.

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 None.

Respiratory protection Respiratory protection not required 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 Milky liquid.
Color White.

Odor Fresh aromatic scent

Odor threshold Not available.

pH 6-7

Melting/freezing point Not available.

Initial boiling point and >212°F (100°C)

boiling range

Flash point >385°F (196°C) 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)1.0Solubility in waterSoluble.Partition coefficientNot available.

(n-octanol/water)

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 stabilityMaterial is stable under normal conditions.Possibility of hazardousHazardous polymerization does not occur.

reactions

Conditions to avoid Heat, flames can cause product to decompose.

Incompatible materials Strong acids, strong bases, strong oxidizing agents.

Hazardous decomposition Carbon dioxide, carbon monoxide.

products

11. Toxicological information

Information on likely routes

of exposure

IngestionExpected to be a low ingestion hazard.InhalationExpected to be a low inhalation hazard.

Skin contactRepeated and/or prolonged skin contact may cause slight irritation.Eye contactRepeated and/or prolonged eye contact may cause slight irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Dermatitis. Rash. May cause an allergic skin reaction.

Acute toxicity Not established.

Product Liquid Live Original (CAS mixture)			
Exposure Classification	Route and Species	LD ₅₀	
Acute	Oral, rat	48,500 mg/kg estimated	
Acute	Dermal, rat	>5,000 mg/kg estimated	
*Estimates for product may be based on additional component data not shown			

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/ irritationNot classified.Respiratory sensitizationNot classified.Skin sensitizationNot classified.Germ cell mutagenicityNot classified.

Carcinogenicity Not considered a carcinogen.



OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not Listed. Reproductive toxicity Not classified. Not classified. Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not considered an aspiration hazard.

12. Ecological information

Ecotoxicity				
Product Liquid Live Original (CAS mixture)				
Aquatic Receptor	Species	Test Thresholds		
Crustacea	Daphnia Magna	EC ₅₀ (48-hr): >730 mg/L (estimated)		
Fish	Oncorhynchus mykiss	LC ₅₀ (96-hr): >400 mg/L (estimated)		
*Estimates for product may be based on additional component data not shown				

Persistence and degradability

2-butoxyethanol is considered readily biodegradable.

Bioaccumulative potential Potential to bioaccumulate is low.

Mobility in soil

Not 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)

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.

Do not release to the environment.

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 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).

Empty containers should be taken to an approved waste handling site for recycling or Contaminated packaging

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

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

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SARA 311/312 Hazard Categories

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 313 (TRI reporting)

2-butoxyethanol (Glycol ether category)

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 (1/2019)

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

Issue date 12/29/2014

Revision date 2/13/2019, 4/15/2020

Version #

HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0



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



NFPA pictograms added.

material used in combination with any other materials or in any process, unless specified by the text.

Revision information

2-13-2019 Format update; Change skin hazard category from 3-2; Prop 54 notice; NFPA AND HMIS pictograms; Text changes Sections 1, 2, 4 6, 7, 9 and 11. 4/15/2020 Logo change PPE language updated; Aquatic toxicity table amended. 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

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