

1. Identification

Product Identifier	Multi-Purpose Enzymes – Citrus Vanilla
Other means of identification	
Product code	CUQNC-1488
Recommended use	Non-pathogenic bacteria spotter and drain cleaner.
Recommended restrictions	Professional use only. Use as directed
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

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 r	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	Dermatitis. Rash. May cause an allergic skin reaction.



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. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO_2). None known.
media 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.
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	Wear appropriate protective equipment and clothing during clean-up. Wear eye/face protection.
Methods and materials for 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.
Environmental precautions	Do not release into the environment (see section 12). Avoid discharge into areas not 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	Store in original tightly closed container. Do not store in extreme conditions.
incompatibilities	

8. Exposure controls/personal protection

Occupational exposure limits		
US OSHA Table Z-1 Limits for	Air Contaminants (29 CFR 1910.10	00)
Components	Туре	Value
2-butoxyethanol	PEL	50 ppm



US ACGIH Threshold Limi	t Values			
Components	Туре		Value	
2-butoxyethanol	STEL		20 ppm	
Biological limit values				
ACGIH Biological Exposur	re Indices			
Components	Value	Determinant	Species	Sampling Time
2-butoxyethanol	200 mg/g	Creatinine	Urine	End of shift.
Appropriate engineering controls	0 / /	Emergency eyewash stations and showers should be readily accessible. Provide natural or mechanical ventilation.		
Individual protection measu	res, such as persor	nal protective equipment		
Eye/face protection	Avoid contact	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 pro	Respiratory protection not required for prescribed use of this product		
Thermal hazards	Wear appropri	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	Citrus Vanilla.
Odor threshold	Not available.
рН	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)	1.0
Solubility in water	Soluble.
Partition coefficient	Not available.
(n-octanol/water)	
Auto-ignition temperature	Not available.



Decomposition temperatureDecomposes on heating.ViscosityNot 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.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat and flames can cause product to decompose.
Incompatible materials	Strong acids, strong bases, strong oxidizing agents.
Hazardous decomposition products	Carbon dioxide, carbon monoxide.

11. Toxicological information

Information on likely routes of exposure	
Ingestion	Expected to be a low ingestion hazard.
Inhalation	Expected to be a low inhalation hazard.
Skin contact	Repeated and/or prolonged skin contact may cause slight irritation.
Eye contact	Repeated 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 Multi-Purpose Enzymes - Citrus Vanilla (CAS mixture)		
Exposure Classification	Route and Species	LD ₅₀
Acute	<i>Oral,</i> 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/ irritation	Not classified.
Respiratory sensitization	Not classified.
Skin sensitization	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not considered a carcinogen.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not Listed.
Reproductive toxicity	Not classified.
Specific target organ toxicity – single exposure	Not classified.
Specific target organ toxicity – repeated exposure	Not classified.
Aspiration hazard	Not considered an aspiration hazard.

12. Ecological information

Ecotoxicity			
Product Multi-Purpose Enzymes - Citrus Vanilla (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 biode	egradable.	
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).
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		
SARA 302 Extremely hazardo	us substance	Not listed.
SARA 304 Emergency release	notification	Not listed.
SARA 311/312 Hazard Catego	ories	
Immediate Ha	zard - Yes	
Delayed Hazar	d – No	
Fire Hazard – I	No	
Pressure Haza	rd – No	
Reactivity Haz	ard – No	
SARA 313 (TRI reporting)		
2-butoxyethar	ol (Glycol ether cat	egory)
California Proposition 65	This product is reproductive to	Drinking Water and Toxic Enforcement Act of 1986 not known to contain any chemicals currently listed as carcinogens or oxins under California Proposition 65 at levels which would be subject etermination and Safe Harbor notification (12/2023).



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

Issue date	3/1/2024
Revision date	
Version #	1
HMIS [®] ratings	Health: 1 Flammability: 0 Physical hazard: 0

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	

NFPA ratings

Health: 1 Flammability: 0 Instability: 0

First issue.



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