



# SAFETY DATA SHEET

## 1. Identification

<b>Product Identifier</b>	<b>Enzyme Laundry Detergent</b>	
<b>Other means of identification</b>		
<b>Product code</b>	CU-7000	
<b>Recommended use</b>	Heavy duty laundry detergent.	
<b>Recommended restrictions</b>	None.	
<b>Manufacturer information</b>		
<b>Company name</b>	Chemical Universe, Inc.	
<b>Address</b>	1133 Saline St. North Kansas City, MO 64116	
<b>Telephone</b>	(816) 471-3602	
<b>Fax</b>	(816) 474-3302	
<b>Emergency phone number</b>	PERS	(800) 633-8253
	24-hour Emergency	(800) 633-8253

## 2. Hazard(s) Identification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Serious eye damage	Category 2A
	Skin corrosion	Category 1B
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not listed.	
<b>Label elements</b>		



<b>Signal word</b>	<b>DANGER</b>
<b>Hazard statement</b>	May be harmful if swallowed. Causes severe skin burns and eye damage.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wear eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Wear protective gloves.
<b>Response</b>	Call a POISON CENTER/doctor/medical professional if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. <b>IF ON SKIN</b> (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. <b>IF INHALED</b> : Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor/medical professional. Specific treatment (see section 4 on the Safety data Sheet) <b>IF IN EYES</b> : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Storage</b>	No prescriptive requirement
<b>Disposal</b>	No prescriptive requirement
<b>Hazard(s) not otherwise classified (HNOC)</b>	None.
<b>Supplemental information</b>	None.



# SAFETY DATA SHEET

## 3. Composition/information on ingredients

Mixture Component(s)		
Chemical name	CAS number	%
Nonylphenol ethoxylate	127087-87-0	10-20
Potassium hydroxide	1310-58-3	1-5
Cocamidopropyl betaine	61789-40-0	1-5
Other components below reportable levels		90-100

## 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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 in work area.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.
<b>Most important symptoms/effects, acute and delayed</b>	Dermatitis. Rash. May cause an allergic skin reaction.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general support measures and treat symptomatically. Keep victim under observation. Topical symptoms may be delayed.
<b>General information</b>	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

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed. Product is highly caustic and may react with alkaline metals or some AFF solutions
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

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



# SAFETY DATA SHEET

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.

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

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

Components	Type	Value
Potassium hydroxide	PEL	2 mg/m <sup>3</sup>

#### US ACGIH Threshold Limit Values

Components	Type	Value
Potassium hydroxide	STEL	2 mg/m <sup>3</sup>

### Biological limit values

None established.

**Appropriate engineering controls** Emergency eye wash stations and showers should be readily accessible. Provide natural or 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** Wear appropriate chemical resistant gloves. Nitrile and PVC are recommended barrier materials

**Other** None.

**Respiratory protection** Respiratory protection not required.

**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** Viscous liquid.

**Color** Blue.

**Odor** Floral.



# SAFETY DATA SHEET

<b>Odor threshold</b>	Not available.
<b>pH</b>	13-14
<b>Melting/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	>212°F (100°C)
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Flammability Limits</b>	
<b>Upper</b>	Not available.
<b>Lower</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity (water=1)</b>	1.04
<b>Solubility in water</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Decomposes on heating.
<b>Viscosity</b>	Not available.

## 10. Stability and reactivity

<b>Reactivity</b>	This product is stable and non-reactive under normal conditions of use.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat, flames can cause product to decompose.
<b>Incompatible materials</b>	Strong acids, alkaline metals, strong oxidizing agents.
<b>Hazardous decomposition products</b>	Aldehydes, ketones, organic acids, carbon dioxide, carbon monoxide.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	Corrosive to mucous membranes, will damage tissue if there is prolonged contact.
<b>Inhalation</b>	Expected to be a low inhalation hazard.
<b>Skin contact</b>	Repeated and/or prolonged skin contact may cause irritation and/or burns.
<b>Eye contact</b>	Causes severe eye damage. May cause severe corneal injury.
<b>Symptoms related to the physical, chemical, and toxicological characteristics</b>	Dermatitis. Rash. May cause an allergic skin reaction.
<b>Acute toxicity</b>	May be harmful if swallowed.

Product Enzyme Laundry Detergent (CAS mixture)		
Exposure Classification	Route and Species	LD <sub>50</sub> /LC <sub>50</sub>
Acute	Oral, rat	2,850 mg/kg (estimated)
Acute	Dermal, rabbit	>5,000 mg/kg

\*Estimates for product may be based on additional component data not shown



# SAFETY DATA SHEET

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/ irritation</b>	Causes serious eye damage.
<b>Respiratory sensitization</b>	Not classified.
<b>Skin sensitization</b>	Not classified.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not considered a carcinogen.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not Listed.
<b>Reproductive toxicity</b>	Not classified.
<b>Specific target organ toxicity – single exposure</b>	Not classified.
<b>Specific target organ toxicity – repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not considered an aspiration hazard.

## 12. Ecological information

Ecotoxicity		
<b>Product</b>	Enzyme Laundry Detergent (CAS mixture)	
<b>Aquatic Receptor</b>	<b>Species</b>	<b>Test Threshold</b>
Crustacea	Daphnia magna (water flea)	EC <sub>50</sub> (48hr): 64.8 mg/L (estimated)
Fish	Fathead Minnow	LC <sub>50</sub> (96hr): 25.9 mg/L (estimated)
*Estimates for product may be based on additional component data not shown		

<b>Persistence and degradability</b>	Nonylphenol ethoxylate: not considered readily biodegradable. However, moderate degradation does occur under certain common environmental conditions.
<b>Bio-accumulative potential</b>	No data available. Expected to exhibit low bioaccumulation in dynamic biological systems
<b>Mobility in soil</b>	Not available. Chemicals of these classes are expected to exhibit moderate to high mobility in saturated and semi-saturated soils
<b>Other adverse effects</b>	The pH of this product may cause it to be toxic to aquatic and terrestrial organisms.

## 13. Disposal considerations

<b>Disposal instructions</b>	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.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations. As packaged, this product may meet criteria defining RCRA corrosive (D002) hazardous wastes when disposed. (40 CFR Part 261, Subpart C)
<b>Waste from residues/unused product</b>	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).
<b>Contaminated packaging</b>	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

### USDOT

<b>UN number</b>	UN1760
<b>UN proper shipping name</b>	Corrosive Liquids, n.o.s. (Contains: Potassium Hydroxide)

**Transport hazard class(es)**



## SAFETY DATA SHEET

<b>Class</b>	8
<b>Subsidiary risk</b>	-
<b>Packaging group</b>	III
<b>Marine pollutant</b>	No
<b>Special precautions for user</b>	Read safety instructions, SDS, and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not intended to be transported in bulk.
<b>DOT Label/Placard</b>	



### 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**

#### **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.

<b>Issue date</b>	1/19/2015
<b>Revision date</b>	3/26/2021
<b>Version #</b>	3
<b>HMIS® ratings</b>	Health: 2 Flammability: 0 Physical hazard: 0



## SAFETY DATA SHEET

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	<input type="checkbox"/>

### NFPA ratings

Health: 2  
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

Product name change. General format update; refined composition tables, update HMIS and NFPA ratings; clarified text in all sections; addition of Prop 65 notice.