

## 1. Identification

<b>Product Identifier</b>	<b>Enzyme Pre-Soak</b>	
<b>Other means of identification</b>	CU-7057	
<b>Product code</b>		
<b>Recommended use</b>	Powdered laundry detergent.	
<b>Recommended restrictions</b>	Professional use only. Use as directed	
<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>	Oxidizing solids	Category 3
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Skin irritant	Category 1C
	Eye damage	Category 1
<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 intensify fire: oxidizer May be harmful if swallowed. Causes severe skin burns and eye damage.

<b>Precautionary statement</b>	
<b>Prevention</b>	Keep away from heat. Keep/Store away from clothing and combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dusts or mists. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/eye protection/face protection.
<b>Response</b>	In case of fire, use water fog to extinguish. Call a POISON CENTER/doctor/medical professional if you feel unwell. <b>IF SWALLOWED:</b> Rinse mouth. Do NOT induce vomiting. <b>IF ON SKIN (or hair):</b> 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. Immediately call a POISON CENTER/doctor/medical professional.



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<b>Storage</b>	Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None.
<b>Supplemental information</b>	None.

## 3. Composition/information on ingredients

Mixture Component(s)		
Chemical name	CAS number	%
Sodium carbonate	497-19-8	40-60
Sodium percarbonate	15630-89-4	10-15
Sodium tripolyphosphate	7758-29-4	10-20
Sodium metasilicate	6834-92-0	1-5
Other components below reportable levels		0-60

## 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. Neutralize burns with vinegar. 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 so. Immediately call a physician or transport to hospital.
<b>Ingestion</b>	Rinse mouth. Get medical attention immediately. Do not induce vomiting.
<b>Most important symptoms/effects, acute and delayed</b>	Can cause serious eye damage. Can cause burning sensation in affected areas. Shortness of breath, respiratory tract irritation or damage.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general support measures and treat symptomatically. Keep victim under observation. 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. Use with extreme caution.

## 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 reported.
<b>Specific hazards arising from the chemical</b>	Oxidizing. Oxygen released in thermal decomposition may support combustion. Contact with flammables may cause fire or explosions. Risk of explosion if heated under confinement.
<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.



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### 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 miscible in water.

Large spills: Place the material in containers using a broom or shovel. Prevent entry into waterways, sewers, basements or confined areas. Following product recovery, flush area with water.

Small spills: Sweep up and put into containers. Clean surfaces 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**

Avoid discharge into surface drainage paths and other 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.

**Conditions for safe storage, including any incompatibilities**

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

### 8. Exposure controls/personal protection

**Occupational exposure limits**

Not available.

**Biological limit values**

Not available.

**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. Recommended materials include latex, nitrile/butyl rubber and PVC substrates

**Other**

Wear appropriate chemical-resistant clothing rated for dusts and sprays

**Respiratory protection**

Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. NIOSH N-95 minimum recommendation

**Thermal hazards**

None.

**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



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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

<b>Appearance</b>	
<b>Physical State</b>	Powder
<b>Color</b>	Green
<b>Odor</b>	None.
<b>Odor threshold</b>	Not available.
<b>pH</b>	11-12 (10% solution)
<b>Melting/freezing point</b>	Not applicable.
<b>Initial boiling point and boiling range</b>	Not applicable.
<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>	1.94
<b>Solubility in water</b>	Soluble.
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.

### 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. Store in a cool dark place.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur
<b>Conditions to avoid</b>	Avoid storage in elevated temperatures.
<b>Incompatible materials</b>	Bases, amines, metals, flammable materials, reducing agents.
<b>Hazardous decomposition products</b>	Oxygen. In case of fire see section 5.

### 11. Toxicological information

<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Do not ingest. Harmful if swallowed.
<b>Inhalation</b>	Do not inhale. Irritating to the respiratory tract.
<b>Skin contact</b>	Causes severe skin burns. For personal protection see Section 8.
<b>Eye contact</b>	Causes serious eye damage. For personal protection see Section 8.



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**Symptoms related to the physical, chemical and toxicological characteristics** Coughing, wheezing, shortness of breath. Rash. Dermatitis.

**Acute toxicity** May be harmful if swallowed.

Product Enzyme Pre-Soak (CAS mixture)		
Exposure Classification	Route and Species	LD <sub>50</sub> /CD <sub>50</sub>
Acute	Oral, rat	2,560 mg/kg (estimated)
Acute	Inhalation, rat	>5,600 mg.kg (estimated)
Acute	Dermal, rabbit	LC <sub>50</sub> > 3,100 mg/kg (estimated)

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

<b>Skin corrosion/irritation</b>	Causes severe skin burns.
<b>Serious eye damage/ irritation</b>	Causes serious eye damage.
<b>Respiratory sensitization</b>	Not considered a respiratory sensitizer.
<b>Skin sensitization</b>	Not considered a skin sensitizer.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	Not considered a carcinogen.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not Listed.
<b>Reproductive toxicity</b>	No data available.
<b>Specific target organ toxicity – single exposure</b>	No data available.
<b>Specific target organ toxicity – repeated exposure</b>	No data available.
<b>Aspiration hazard</b>	No data available.

## 12. Ecological information

Ecotoxicity		
Product Enzyme Pre-Soak (CAS mixture)		
Aquatic Receptor	Species	Test Thresholds
Fish	Fathead minnow ( <i>Pimephales promelas</i> )	LC <sub>50</sub> = 263 mg/L (estimated)
Crustacea	Daphnia Magna	EC <sub>50</sub> = 30 mg/L (estimated)

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

<b>Persistence and degradability</b>	No data available. Chemicals of this class are not expected to be persistent in an open aerobic environment
<b>Bio-accumulative potential</b>	Bio-accumulative potential is low.
<b>Partition coefficient n-octanol/water (log K<sub>ow</sub>)</b>	Not applicable
<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	Harmful to aquatic life.

## 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.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Material may qualify as a special solid waste under local and regional waste rules



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- 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

USDOT Not regulated as dangerous goods.

### 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 – Yes

#### 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 (1/2019)

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

**Issue date** 4/22/2016  
**Revision date** 3/23/2019 10/4/2019  
**Version #** 3  
**HMIS® ratings** Health: 2  
Flammability: 0  
Physical hazard: 1

HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	<input type="checkbox"/>

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**NFPA ratings**

Health: 2  
Flammability: 0  
Instability: 1



**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**

Changed acute oral toxicity category from 5 to 4; General format update, Prop 65 statement; Update toxicology, PPE and environmental fate information; PPE notations; Composition chart update; Physical data update; miscellaneous text corrections; HMIS and NFPA pictograms inserted; Lowered HMIS and NFPA health classification from 3 to 2 (definition).  
10-4-2019 Change physical description of color from white to green