



SAFETY DATA SHEET

1. Identification

Product Identifier	Break Out
Other means of identification	CU-7052
Product code	
Recommended use	Powdered enzyme laundry detergent.
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
Fax	(816) 474-3302
Emergency phone number	PERS (800) 633-8253 24-hour Emergency (800) 633-8253

2. Hazard(s) Identification

Physical hazards	Oxidizing solids	Category 3
Health hazards	Acute toxicity, oral	Category 4
	Skin irritant	Category 1
	Eye damage	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not listed.	
Label elements		



Signal word	DANGER
Hazard statement	May intensify fire: oxidizer May be harmful if swallowed. Causes severe skin burns and eye damage.
Precautionary statement	
Prevention	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.
Response	In case of fire, use water fog to extinguish. Call a POISON CENTER/doctor/medical professional if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: 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. 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.
Storage	Store locked up.



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Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None.
Supplemental information	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		0-45

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. Neutralize burns with vinegar. 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.
Ingestion	Rinse mouth. Get medical attention immediately. Do not induce vomiting.
Most important symptoms/effects, acute and delayed	Can cause serious eye damage. Can cause burning sensation in affected areas. Shortness of breath, respiratory tract irritation or damage.
Indication of immediate medical attention and special treatment needed	Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	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

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread liquid-sourced fire.
Specific hazards arising from the chemical	Oxidizing. Oxygen released in thermal decomposition may support combustion. Contact with flammables may cause fire or explosions. Risk of explosion if heated under confinement.
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.



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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. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or dust. 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, storm sewer, or confined areas containing organic substrates. Following product recovery, flush area with water.

Small spills: Sweep up and put into containers. Clean surface thoroughly 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 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. Latex and nitrile are recommended barrier materials

Other

None.

Respiratory protection

Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. Minimum N-95 dust/mist respiratory protection

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

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, flammable materials, reducing agents.
Hazardous decomposition products	Oxygen. In case of fire see section 5.

11. Toxicological information

Information on likely routes of exposure	
Ingestion	Do not ingest. Harmful if swallowed.
Inhalation	Do not inhale. Irritating to the respiratory tract.
Skin contact	Causes severe skin burns. For personal protection see Section 8.
Eye contact	Causes serious eye damage. For personal protection see Section 8.
Symptoms related to the physical, chemical and toxicological characteristics	Coughing, wheezing, shortness of breath. Rash. Dermatitis.



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Acute toxicity May be harmful if swallowed.

Product Break Out(CAS mixture)		
Exposure Classification	Route and Species	LD ₅₀ /LC ₅₀
Acute	Oral, rat	2,560 mg/kg estimated
*Estimates for product may be based on additional component data not shown		

Skin corrosion/irritation Causes severe skin burns.
Serious eye damage/irritation Causes serious eye damage.
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 Break Out (CAS mixture)		
Aquatic Receptor	Species	Test Threshold
Fish	Fathead minnow	LC ₅₀ = 263 mg/L (estimated)
Crustacea	Daphnia Magna	EC ₅₀ = 30 mg/L (estimated)
*Estimates for product may be based on additional component data not shown		

Persistence and degradability No data available.
Bio-accumulative potential Bio-accumulative potential is low.
Partition coefficient n-octanol/water (log K_{ow}) Not available.
Mobility in soil No data available. Chemicals of these classes are expected to exhibit moderate to high mobility in saturated and semi-saturated soils
Other adverse effects Harmful to aquatic life.

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.
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 may meet criteria defining RCRA ignitable (D001) hazardous waste (oxidizer) when disposed. (40 CFR Part 261, Subpart C)



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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 6/15/2017
Revision date 3/20/2019
Version # 2
HMIS® ratings Health: 3
Flammability: 0
Physical hazard: 1



NFPA ratings Health: 3
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

3-20-2019

Amend acute oral toxicity category 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