



# SAFETY DATA SHEET

## 1. Identification

<b>Product Identifier</b>	<b>Enzyme Laundry Spotter</b>	
<b>Other means of identification</b>		
<b>Product code</b>	CU-7072	
<b>Recommended use</b>	Laundry spotter.	
<b>Recommended restrictions</b>	Professional use only. Use only as directed	
<b>Manufacturer/supplier/distributor/importer information</b>		
<b>Company name</b>	Chemical Universe, Inc.	
<b>Address</b>	1841 Vernon Street North Kansas City, MO 64116	
<b>Telephone</b>	(816) 471-3602	
<b>Emergency phone number</b>	PERS	(800) 633-8253
	24-hour Emergency	(800) 633-8253

## 2. Hazard(s) Identification

<b>Physical hazards</b>	Flammable Liquids	Category 4
<b>Health hazards</b>	Skin Irritation	Category 2
	Eye irritation	Category 2A
	Skin sensitization	Category 1
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	None	
<b>Label elements</b>		



<b>Signal word</b>	Warning.
<b>Hazard statement</b>	Combustible liquid. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
<b>Precautionary statement</b>	
<b>Prevention</b>	Keep away from flames and hot surfaces. No smoking. Wear protective gloves/eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Avoid breathing fume/mist/vapors/spray. Contaminated clothing should not be allowed out of the workplace.
<b>Response</b>	In case of fire: Use water fog, foam, or carbon dioxide (CO <sub>2</sub> ) to extinguish. IF ON SKIN: Wash with plenty of soap and water. Specific treatment: See section 4 on the Safety Data Sheet. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Storage</b>	Store in a well-ventilated place. Keep cool.
<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 Components
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Chemical name	CAS number	%
Nonylphenol, ethoxylated	127087-87-0	1-10
C9-11 Alcohols, ethoxylated	68439-46-36	1-5
Butoxydiglycol	112-34-5	1-5
D-limonene	5989-27-5	1-5
Other components below reportable levels		85-95

### 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 so. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur. Only induce vomiting at the instruction of medical personnel.
<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 widespread support measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to the hospital. 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.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical powder, sand, or earth may be used for small fires only.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source or ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. During fire, gases hazardous to health may be formed.
<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>	In case of fire and/or explosion do not breathe fumes. 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>	Flammable liquid and vapor.

### 6. Accidental release measures

<b>Personal precautions, protective equipment, and emergency procedures</b>	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. Ensure adequate ventilation. Remove all sources of ignition. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Eliminate all ignition sources. Use only non-sparking tools. Take precautionary measures against static discharge. Keep combustibles away from spilled material.



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Large spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into suitable containers. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with detergent and water.

Small spills: Absorb with earth, sand, or other non-combustible material and transfer to container for later disposal. 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 release to the environment. Avoid discharge into combined sewers or other areas not consistent with package labeling.

## 7. Handling and storage

### Precautions for safe handling

Do not manage, store or open near an open flame, sources of heat or sources of ignition. Do not smoke. Use explosion proof equipment and non-sparking tools. Take precautionary measures against static discharge. 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

Keep away from heat, sparks, and open flame. Ground/bond container and equipment. 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** No information.

**Biological limit values** No information.

### 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 below recommended exposure limits.

### 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.

##### Other

None.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

#### 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 managing 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

Liquid.

#### Color

Colorless to light amber.

#### Odor

Citrus.



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Odor threshold	Not available.
pH	8-9
Melting/freezing point	Not available
Initial boiling point and boiling range	>212°F (>100°C) estimated.
Flash point	158°F (70°C) estimated.
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)	1.00
Solubility in water	Complete.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not 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. Store in a cool dark place.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames, and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents, strong acids.
Hazardous decomposition products	Carbon dioxide, carbon monoxide.

### 11. Toxicological information

#### Information on likely routes of exposure

Ingestion	Expected to be low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. See section 8 for personal protection.
Eye contact	Direct contact with eyes causes serious irritation.
Symptoms related to the physical, chemical, and toxicological characteristics	Dermatitis. Rash.
Acute toxicity	Not established.

Enzyme Laundry Spotter (CAS mixture)		
Exposure Classification	Route and Species	LD <sub>50</sub>
Acute	Oral, rat	10,000 mg/kg estimated
	Dermal, rabbit	>2,000 mg/kg estimated

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



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<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/ irritation</b>	Causes serious eye irritation.
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	No data is available to indicate that product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not expected to be a carcinogen.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	
Not Listed.	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<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 classified.

### 12. Ecological information

Ecotoxicity		
Enzyme Laundry Spotter (CAS mixture)		
Aquatic Receptor	Species	Evaluate Results
Crustacea	Daphnia	EC <sub>50</sub> (48 hr): 70 estimated
Fish	Oncorhynchus mykiss (rainbow trout)	LC <sub>50</sub> (96 hr): 30 estimated
*Estimates for product may be based on additional component data not shown		

<b>Persistence and degradability</b>	No data available.
<b>Bio-accumulative potential</b>	Potential to bioaccumulation is expected to be low. Product is water soluble
<b>Mobility in soil</b>	No data available. Mobility in medium clay soils is expected to be low
<b>Other adverse effects</b>	Toxic to aquatic life in high concentrations.

### 13. Disposal considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose of 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.
<b>Waste from residues/unused product</b>	Dispose of it 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

<b>DOT</b>	Not classified as dangerous goods.
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### 15. Regulatory information

<b>US federal regulations</b>
<b>SARA 302 Extremely hazardous substance</b>
Not listed.

**SARA 304 Emergency release notification**

Not listed.

**SARA 311/312 Hazard Categories**

Immediate Hazard - Yes  
Delayed Hazard – No  
Fire Hazard – Yes  
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 (12/2023)

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

**Issue date** 2/20/2024  
**Revision date**  
**Version #** 1  
**HMIS® ratings** Health: 2  
Flammability: 1  
Physical hazard: 0

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

**NFPA ratings** Health: 2  
Flammability: 1  
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**

First issue.



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