



# SAFETY DATA SHEET

## 1. Identification

<b>Product Identifier</b>	<b>All-Temp Dish Detergent</b>	
<b>Other means of identification</b>		
<b>Product code</b>	CU-5400	
<b>Recommended use</b>	Aluminum-safe automatic dish machine detergent.	
<b>Recommended restrictions</b>	None.	
<b>Manufacturer information</b>		
<b>Company name</b>	<b>Chemical Universe, Inc.</b>	
<b>Address</b>	1133 Saline 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>	Not classified.	
<b>Health hazards</b>	Serious eye damage	Category 1
	Skin irritant	Category 2
<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>	Causes serious eye damage. Causes skin irritation.
<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>	<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. <b>IF ON SKIN:</b> Wash with plenty of water for at least 15 minutes. Specific treatment (see section 4 on the Safety Data Sheet). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
<b>Storage</b>	No prescriptive instruction
<b>Disposal</b>	No prescriptive instruction
<b>Hazard(s) not otherwise classified (HNOC)</b>	None.
<b>Supplemental information</b>	None.



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## 3. Composition/information on ingredients

Mixture Component(s)		
Chemical name	CAS number	%
Sodium metasilicate	6834-92-0	1-10
Sodium xylene sulfonate	7757-82-6	1-5
Tetrasodium ethylenediamine tetraacetate	7732-18-5	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 located 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. 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.
<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, storm sewer or confined areas.



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Small spills: Wipe up with absorbent material (e.g. cloth, absorbent wipes). Clean surface thoroughly with water to remove residual contamination.

Residual contamination can be affected through use of vinegar, citric acid or other weak acid material. Caution; Neutralization reactions release heat.

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 open environment (see section 12). Avoid discharge into surface drainage paths, sewers or other 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 conditions.

## 8. Exposure controls/personal protection

**Occupational exposure limits** None established.

**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

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. Suggested protective materials: Nitrile and neoprene rubber

##### Other

Depending on exposure and use conditions, additional protection may be necessary to prevent skin contact including use of items such as chemical-resistant boots, aprons, arm covers, hoods or coveralls.

##### Respiratory protection

Respiratory protection not required for prescribed use of this product

##### 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** Liquid

**Color** Red

**Odor** Indistinct/detergent

**Odor threshold** Not available.

**pH** 13-14



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Melting/freezing point	Not available.
Initial boiling point and boiling range	>212°F (100°C)
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)	1.02
Solubility in water	Soluble
Partition coefficient (n-octanol/water)	1.27 (estimated_
Auto-ignition temperature	Not available.
Decomposition temperature	Decomposes on heating.
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.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames can cause product to decompose.
Incompatible materials	Strong acids, strong bases, strong oxidizing agents.
Hazardous decomposition products	Aldehydes, ketones, organic acids, carbon dioxide, carbon monoxide.

## 11. Toxicological information

Information on likely routes of exposure	
Ingestion	May be harmful if swallowed. Do not ingest
Inhalation	Expected to be a low inhalation hazard.
Skin contact	Repeated and/or prolonged skin contact causes irritation and/or burns.
Eye contact	Causes severe eye damage. May cause severe corneal injury.
Symptoms related to the physical, chemical and toxicological characteristics	Dermatitis. Rash. May cause an allergic skin reaction.
Acute toxicity	Expected to have a low toxicity.

Product All-Temp Dish Detergent (CAS mixture)		
Exposure Classification	Route and Species	LD <sub>50</sub> /LC <sub>50</sub>
Acute	Oral, rat	> 12,000 mg/kg estimated
Acute	Dermal, rabbit	>2,000 mg/kg
*Estimates for product may be based on additional component data not shown		

**Skin corrosion/irritation** Causes skin irritation.



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<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		
Product All-Temp Dish Detergent (CAS mixture)		
Aquatic Receptor	Species	Test Threshold
Crustacea	Daphnia magna (water flea)	EC <sub>50</sub> (48-hr): 3,200 mg/L (estimated)
Fish	Fathead Minnow	LC <sub>50</sub> (96-hr): 2,360 mg/L (estimated)
Algae	Nd Blue-green	EC <sub>50</sub> (48-hr): 270 mg/L (estimated)
*Estimates for product may be based on additional component data not shown		

<b>Persistence and degradability</b>	Not available. Chemicals of this class are not expected to be persistent in an open aerobic environment
<b>Bio-accumulative potential</b>	No data available.
<b>Mobility in soil</b>	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
<b>Other adverse effects</b>	The pH of this product may cause it to be toxic to aquatic and terrestrial organisms at high concentrations in the aqueous medium.

## 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). Before selecting disposal method, ensure that the waste materials have been properly assessed and, as necessary, tested to confirm regulatory status.
<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: Disodium Trioxosilicate)
<b>Transport hazard class(es)</b>	
<b>Class</b>	8



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<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-reportable)** Not listed.

### California **California Safe Drinking Water and Toxic Enforcement Act of 1986**

**Proposition 65** 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

<b>Issue date</b>	1/14/2015 9/25/2019
<b>Revision date</b>	10/4/2016, 1/22/2020, 3/4/2020
<b>Version #</b>	3
<b>HMIS® ratings</b>	Health: 2 Flammability: 0 Physical hazard: 0



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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

10/4/2016 – Change product identification number  
1/22/2020 General format update; Refine composition table, amend physical data; Update toxicology thresholds and environmental fate information; Text clarification amendments Sections 5,6,8,9 and 12. PPE recommendation updated; California Proposition 65 notice; HMIS and NFPA pictograms added  
3/4/2020 New logo