



SAFETY DATA SHEET

1. Identification

Product Identifier	All-Temp Dish Detergent	
Other means of identification		
Product code	CU-5400, 5400-CLL	
Recommended use	Aluminum-safe automatic dish machine detergent.	
Recommended restrictions	None.	
Manufacturer information		
Company name	Chemical Universe, Inc.	
Address	1841 Vernon Street North Kansas City, MO 64116	
Telephone	(816) 471-3602	
Emergency phone number	PERS	(800) 633-8253
	24-hour Emergency	(800) 633-8253

2. Hazard(s) Identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage	Category 1
	Skin irritant	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not listed.	
Label elements		



Signal word	DANGER
Hazard statement	Causes serious eye damage. Causes skin irritation.
Precautionary statement	
Prevention	Wear eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Wear protective gloves.
Response	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. IF ON SKIN: 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.
Storage	No prescriptive instruction
Disposal	No prescriptive instruction
Hazard(s) not otherwise classified (HNOC)	None.
Supplemental information	None.

3. Composition/information on ingredients

Mixture Component(s)



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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

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. 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. Get medical attention. Eye wash stations should be in work area.
Ingestion	Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.
Most important symptoms/effects, acute and delayed	Dermatitis. Rash. May cause an allergic skin reaction.
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.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂)
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
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.

6. Accidental release measures

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



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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

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.



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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 ₅₀ /LC ₅₀
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.
 Serious eye damage/ irritation Causes serious eye damage.
 Respiratory sensitization Not classified.
 Skin sensitization Not classified.
 Germ cell mutagenicity Not classified.
 Carcinogenicity Not considered a carcinogen.
 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not Listed
 Reproductive toxicity Not classified.
 Specific target organ toxicity – single exposure Not classified.
 Specific target organ toxicity – repeated exposure Not classified.
 Aspiration hazard Not considered an aspiration hazard.



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12. Ecological information

Ecotoxicity		
Product	All-Temp Dish Detergent (CAS mixture)	
Aquatic Receptor	Species	Test Threshold
Crustacea	Daphnia magna (water flea)	EC ₅₀ (48-hr): 3,200 mg/L (estimated)
Fish	Fathead Minnow	LC ₅₀ (96-hr): 2,360 mg/L (estimated)
Algae	Nd Blue-green	EC ₅₀ (48-hr): 270 mg/L (estimated)

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

Persistence and degradability	Not available. Chemicals of this class are not expected to be persistent in an open aerobic environment
Bio-accumulative potential	No data available.
Mobility in soil	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
Other adverse effects	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

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. Do not release to the environment.
Local disposal regulations	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.
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

UN number	UN1760
UN proper shipping name	Corrosive Liquids, n.o.s. (Contains: Disodium Trioxosilicate)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packaging group	III
Marine pollutant	No
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not intended to be transported in bulk.
DOT Label/Placard	



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

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

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

NFPA ratings Health: 2
 Flammability: 0
 Instability: 0



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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