

1. Identification

Product Identifier	Multi-Temp Dish Detergent	
Other means of identification		
Product code	CU-5412	
Recommended use	Premium dish detergent.	
Recommended restrictions	Professional use only. Use as directed	
Manufacturer information		
Company name	Chemical Universe, Inc.	
Address	1133 Saline Street	
	North Kansas City, MO 64116	
Telephone	(816) 471-3602	
Emergency phone number	PERS 24-hour Emergency (800) 633-8253	

2. Hazard(s) Identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity	Category 4
	Serious eye damage	Category 1
	Skin corrosion	Category 1B
Environmental hazards	Not classified.	
OSHA defined hazards	Not listed.	
Label elements		
Signal word	DANGER	
Hazard statement	May be harmful if swallo	wed.
	Causes severe skin burns	and eye damage.
Precautionary statement		
Prevention	Do not breathe dusts or i	mists. Wash hands and
	Wear protective gloves/p	protective clothing/eye
Response	Call a POISON CENTER/do	octor/medical professio
	IF SWALLOWED: Rinse m	outh. Do NOT induce v
	IF ON SKIN (or hair): Take	e off immediately all co
	water/shower. Wash con	ntaminated clothing bef
	IF INHALED: Remove per	son to fresh air and kee
	call a DOICON CENTER /dz	

	Causes severe skin burns and eye damage.
Precautionary statement	
Prevention	Do not breathe dusts or mists. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	 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 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.
Storage	Store locked up.
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 hydroxide	1310-73-2	15-25
Other components below reportable lev	vels	75-85

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 located 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.
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 Unsuitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO_2) 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.
Environmental precautions	Do not release into the environment (see section 12). Avoid discharge into 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. Store in original tightly closed container. Do not store in extreme conditions.

Conditions for safe storage, including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits			
US OSHA Table Z-1 Limits fo	or Air Contaminants (29 CFR 1910.1000		
Components	Туре	Value	
Sodium hydroxide	PEL	2 mg/m ³	
US ACGIH Threshold Limit \	/alues		
Components	Туре	Value	
Sodium hydroxide	STEL	2 mg/m ³	
Biological limit values	No data available.		
Appropriate engineering controls	Emergency eye wash stations and showers should be readily accessible. Provide natural or mechanical ventilation.		
Individual protection measure	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 resistar PVC	nt gloves. Nitrile, butyl rubber, Santoprene, neoprene,	
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 and/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	measures, such as washing after ha smoking. Routinely wash work clot	newing tobacco. Always observe good personal hygiene andling the material and before eating, drinking, and/or hing and protective equipment to remove contaminants. I not be allowed out of the workplace.	

9. Physical and chemical properties

Appearance	
Physical State	Liquid
Color	Red
Odor	Characteristic
Odor threshold	Not available
рН	13-14
Melting/freezing point	Not available
Initial boiling point and boiling	>212°F (100°C)
range	
Flash point	>385°F (196°C)
Evaporation rate	Not available



Flammability Flammability Limits	Not available
Upper	Not available
Lower	Not available
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity (water=1)	1.24
Solubility in water	Soluble.
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.
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	Corrosive to mucous membranes, will damage tissue if there is prolonged contact.
Inhalation	Expected to be a low inhalation hazard.
Skin contact	Repeated and/or prolonged skin contact will cause burns.
Eye contact	Causes severe eye damage. May cause severe corneal injury.
Symptoms related to the physical, chemical and toxicological characteristics	Dermatitis. Rash.
Acute toxicity	May be harmful if swallowed.

Product Multi-Temp Dish Detergent (CAS mixture)		
Exposure Classification	Route and Species	LD ₅₀
Acute	Oral, rat	2,500 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 Serious eye damage/ irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity Causes severe skin burns. Causes serious eye damage. Not classified. Not classified. Not classified.



CarcinogenicityNot considerOSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)Not Listed.Reproductive toxicityNot classifierSpecific target organ toxicity – single exposureNot classifierSpecific target organ toxicity – repeated exposureNot classifierAspiration hazardNot consider

Not considered a carcinogen. Not Listed. Not classified. Not classified. Not classified. Not considered an aspiration hazard.

12. Ecological information

Ecotoxicity			
Product Multi-Temp Dish Detergent (CAS mixture)			
Aquatic Receptor	Species	Test Thresholds	
Crustacea	Daphnia magna	EC ₅₀ (48hr): 210 mg/L estimated	
Fish	Fathead minnow	LC ₅₀ (96hr): 230 mg/L estimated	
*Estimates for product may be based on additional component data not shown			

Persistence and degradability	No data available. Chemicals of this class are not expected to be persistent in an open aerobic environment
Bio-accumulative potential	No data available. Components are highly water-soluble and not expected to accumulate in dynamic biological systems
Mobility in soil	Not available. Listed components are inorganic and highly water-soluble. In aqueous medium, the listed chemical(s) will readily dissociate into ionic molecules that will be weakly adsorbed onto organic matter particles. These components are expected to exhibit moderate to high mobility in saturated and semi-saturated soils.
Other adverse effects	No data available. No other adverse environmental effects known (<i>i.e. ozone depleting substance, tropospheric ozone precursor, greenhouse gas emission, endocrine disruptor or other deleterious environmental effect</i>)

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)
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	Hazardous Material Classification	
UN	number	UN1760
UN	proper shipping name	Corrosive Liquids, n.o.s. (Contains: Sodium hydroxide)
	nsport hazard s(es)	
c	Class	8
S	ubsidiary risk	-



III No

Packaging group Marine pollutant Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

DOT LABEL/PLACARD



Read safety instructions, SDS, and emergency procedures before handling. Not intended to be transported in bulk.

15. Regulatory information

US federal regulations		
SARA 302 Extremely hazardous substar	nce Not listed.	
SARA 304 Emergency release notification	on 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 reporting) N	ot listed.	
This produ reproduct	Safe Drinking Water and Toxic Enforcement Act of 1986 act is not known to contain any chemicals currently listed as carcinogens or ive toxins under California Proposition 65 at levels which would be subject to determination and Safe Harbor notification (1/2019)	

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

Issue date	5/8/2015
Revision date	10/5/2016, 3-14-2019, 3/4/2020
Version #	3
HMIS [®] ratings	Health: 2
	Flammability: 0
	Physical hazard: 0





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 informationHazard identification, composition/information on ingredients, physical chemical
properties.
3/14/2019 Acute oral tox category from 5 to 4 (definition) ; 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