SAFETY DATA SHEET



1. Identification

Product Identifier All-Temp Metal Safe

Other means of identification

Product code CU-5400

Recommended use Aluminum-safe automatic dish machine detergent.

Recommended restrictions None.

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 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 Disposal

Hazard(s) not otherwise None.

classified (HNOC)

Supplemental information None.

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3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Sodium metasilicate	6834-92-0	1-10

SDS US
Material Name: All-Temp Metal Safe
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Sodium xylene sulfonate	7757-82-6	1-5
Tertasodium 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 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. 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

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂)

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, sewer, basements or confined areas.

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

Never return spills to original container for re-use. For waste disposal, see section 13 of the

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.

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

Emergency eye wash stations and showers should be readily accessible. Provide natural or

controls 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 Wear appropriate chemical resistant gloves.

Other None.

Respiratory protection Respiratory protection not required.

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.
Odor threshold Not available.
pH 13-14

Melting/freezing point Not available.
Initial boiling point and >212°F (100°C)

boiling range

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 Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Decomposes on heating.

Viscosity Not available.

10. Stability and reactivity

This product is stable and non-reactive under normal conditions of use. Reactivity

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

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.

Causes severe eye damage. May cause severe corneal injury. Eye contact

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	Route and Species	LD ₅₀
All-Temp Metal Safe (CAS mi	ixture)	
Acute	Oral, rat	12,000 mg/kg estimated
	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 Not classified.

- single exposure

Specific target organ toxicity

Not classified.

- repeated exposure

Aspiration hazard Not considered an aspiration hazard.

12. Ecological information

Ecotoxicity

Product	Species	Test Results	
All-Temp Dish Detergent (CAS mixture)			
Aquatic			
Crustacea	Daphnia	EC ₅₀ (48hr): 3,200 mg/L estimated	
Fish	Fathead	LC ₅₀ (96hr): 2,360 mg/L estimated	

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

Persistence and degradabilityNot available.Bioaccumulative potentialNo data available.Mobility in soilNot available.

Other adverse effectsThe pH of this product may cause it to be toxic to aquatic and terrestrial organisms.

13. Disposal considerations

Disposal instructionsCollect 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

Waste from residues/unused

product

Dispose in accordance with all applicable regulations

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

DOT

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.Not intended to be transported in bulk.

Transport in bulk according to Annex II of MARPOL 73/78

and the IBC Code

DOT



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 reporting)

Not listed.

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

 Issue date
 1/14/2015

 Revision date
 10/4/2016

Version # 1

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 information Product identifier.