SAFETY DATA SHEET



1. Identification

Product Identifier Silver Soak

Other means of identification

Product code CU-5260

Recommended use Flatware pre-soak.

Recommended restrictions Professional use only.

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

classified (HNOC)

None.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
2-butoxyethanol	111-76-2	5-10
Nonylphenol ethoxylate	127087-87-0	1-5
C8-10 ethoxylate phosphate	68130-47-2	1-5
Potassium hydroxide	1310-58-3	0.1-1
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.

Rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Eye contact

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 Dermatitis. Rash. May cause an allergic skin reaction.

symptoms/effects, acute and

delaved

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 (CO₂).

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

Specific methods

equipment/instructions

Move containers from fire area if you can do so without risk.

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 Methods and materials for

containment and cleaning up

Wear appropriate protective equipment and clothing during clean-up. Wear eye/face

protection.

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

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
2-butoxyethanol	PEL	50 ppm
Potassium hydroxide	PEL	2 mg/m ³

US ACGIH Threshold Limit Values

Components	Туре	Value
2-butoxyethanol	STEL	20 ppm
Potassium hydroxide	STEL	2 mg/m ³

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Species	Sampling Time
2-butoxyethanol	200 mg/g	Creatinine	Urine	End of shift.

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 Wear long sleeve shirts with pants. **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 Blue. Odor Butyl.

Material Name: Silver Soak

Odor threshold Not available. pH 12-13

Melting/freezing point Not available.

Initial boiling point and >212°F (100°C)

boiling range

Flash point >212°F (100°C)
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) 1.0
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

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoidHeat, flames can cause product to decompose.Incompatible materialsStrong 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 may cause 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	Route and Species	LD ₅₀
Silver Soak (CAS mixture)		
Acute	Oral, rat	7,500 mg/kg estimated
	Dermal, rabbit	>5.000 mg/kg

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

Skin corrosion/irritationCauses skin irritation.Serious eye damage/Causes serious eye damage.

irritation

Respiratory sensitizationNot classified.Skin sensitizationNot classified.Germ cell mutagenicityNot 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

- repeated exposure

Not classified.

Aspiration hazard Not considered an aspiration hazard.

12. Ecological information

Ecotoxicity

Product	Species	Test Results
Silver Soak (CAS mixture)		
Aquatic		
Crustacea	Daphnia	EC ₅₀ (48hr): 477 mg/L estimated
Fish	Fathead	LC ₅₀ (96hr): 203 mg/L estimated

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

Persistence and degradability Nonylphenyl ethoxylate: not considered readily biodegradable, but doesn't mean this material

isn't biodegradable under certain environmental conditions.

Bioaccumulative potentialNo data available.Mobility in soilNot available.Other adverse effectsNot abailable.

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 Dis

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: Potassium Hydroxide)

Transport hazard class(es)

Class 8
Subsidiary risk -

Packaging group Ш Marine pollutant No

Read safety instructions, SDS, and emergency procedures before handling. Special precautions for user

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

and the IBC Code

Not intended to be transported in bulk.

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)

2-butoxyethanol (Glycol Ether Category)

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

12/31/2014 Issue date **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 Physical and chemical properties, Ecological information.

Material Name: Silver Soak