



SAFETY DATA SHEET

1. Identification

Product Identifier Silver Soak Powder
Other means of identification
Product code CU-5265
Recommended use Pre-soak.
Recommended restrictions Professional use only. Use as directed
Manufacturer/supplier/distributor/importer information
Company name Chemical Universe, Inc
Address 1133 Saline Street
North Kansas City, MO 64116
Telephone (816) 471-3602
FAX (816) 474-3302
Emergency phone number PERS 24-hour Emergency (800) 633-8253

2. Hazard(s) Identification

Physical hazards Not classified.
Health hazards Acute toxicity, oral Category 4
Serious eye damage Category 1
Skin corrosion Category 1C
Environmental hazards Not classified.
OSHA defined hazards None.
Label elements



Signal word **DANGER**
Hazard statement Harmful if swallowed.
Causes severe skin burns and eye damage.
Precautionary statement
Prevention Wash hands and exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe dust or mists. Wear protective gloves/protective clothing/eye protection/face protection.
Response **IF SWALLOWED:** Immediately call a POISON CENTER/doctor/medical professional. Specific treatment: See section 4 on the Safety Data Sheet. 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 for breathing.
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/containers in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) None.



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Supplemental information None

3. Composition/information on ingredients

Mixture Component(s)		
Chemical name	CAS number	%
Sodium carbonate	497-19-8	50-60
Sodium metasilicate	6834-92-0	10-15
Sodium tripolyphosphate	7758-29-4	10-15
Other components below reportable levels		10-30

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. Neutralize burns with vinegar. 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 so. Immediately call a physician or transport to hospital.
Ingestion	Rinse mouth. Get medical attention immediately. Do not induce vomiting.
Most important symptoms/effects, acute and delayed	Can cause serious eye damage. Can cause burning sensation in affected areas. Shortness of breath, respiratory tract irritation or damage. Pain, swelling excessive tearing and redness of the eye.
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. Use with extreme caution.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
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	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled materials
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unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water.

Large spills: Place the material in containers using a broom or shovel. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small spills: Sweep up and put into containers. Clean surface thoroughly to remove residual contamination.

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

Environmental precautions

Avoid discharge into areas not consistent with package labeling.

7. Handling and storage

Precautions for safe handling

Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

No information.

Biological limit values

No information.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level. It is recommended that users of this product perform a risk assessment to determine the appropriate personal protective equipment.

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. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Suggested protective materials: Nitrile and PVC rubber.

Other

Wear appropriate chemical resistant clothing. Use of a chemical- impervious apron is recommended.

Respiratory protection

In case of insufficient ventilation, wear suitable NIOSH-approved respiratory protection.

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.



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9. Physical and chemical properties

Appearance	
Physical State	Powder
Color	White/light blue.
Odor	Citrus.
Odor threshold	Not available.
pH	12-13 (10% solution)
Melting/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
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)	1.99
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. Store in a cool dark place.
Possibility of hazardous reactions	Hazardous polymerization does not occur
Conditions to avoid	Avoid storage in elevated temperatures.
Incompatible materials	Bases, amines, metals.
Hazardous decomposition products	Hydrogen. In case of fire see section 5.

11. Toxicological information

Information on likely routes of exposure	
Ingestion	Do not ingest. May be harmful if swallowed.
Inhalation	Do not inhale. May cause damage to the upper respiratory tract.
Skin contact	Can cause severe skin burns.
Eye contact	Can cause serious eye damage.



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Symptoms related to the physical, chemical and toxicological characteristics

Coughing, wheezing, shortness of breath. Pain, swelling excessive tearing and redness of the eye.

Acute toxicity

Harmful if swallowed.

Product Silver Soak Powder (CAS mixture)		
Exposure Classification	Route and Species	LD₅₀
Acute	Oral, rat	>1,700 mg/kg estimated
*Estimates for product may be based on additional component data not shown		

Skin corrosion/irritation

Can cause severe skin burns.

Serious eye damage/ irritation

Can cause serious eye damage.

Respiratory sensitization

Not considered a respiratory sensitizer.

Skin sensitization

Not considered a skin sensitizer.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Not considered a carcinogen. No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Listed.

Reproductive toxicity

No data available.

Specific target organ toxicity – single exposure

May cause damage to the upper respiratory tract with prolonged inhalation.

Specific target organ toxicity – repeated exposure

No data available.

Aspiration hazard

No data available.

12. Ecological information

Ecotoxicity		
Product Silver Soak Powder (CAS mixture)		
Aquatic Receptor	Species	Test Threshold(s)
Fish	Fathead minnow	LC ₅₀ = 110 mg/L estimated (96-hr)
Crustacea	Daphnia Magna	EC ₅₀ = 145 mg/L estimated (48-hr)
*Estimates for product may be based on additional component data not shown		

Persistence and degradability

No information.

Bioaccumulative potential

Bio-accumulative potential is considered to be low.

Mobility in soil

No data 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 other adverse environmental effects known (*i.e. ozone depleting substance, tropospheric ozone precursor, greenhouse gas emission, endocrine disruptor or other deleterious environmental effect*)



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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.
Local disposal regulations	Dispose in accordance with all applicable regulations
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company. As packaged, this product (as a non-liquid) is not believed to meet criteria defining RCRA 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

DOT	
UN number	UN1759
UN proper shipping name	Corrosive solids, 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	



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Immediate Hazard - Yes
 Delayed Hazard – No
 Fire Hazard – No
 Pressure Hazard – No
 Reactivity Hazard – No
SARA 313 (TRI reporting) Not listed

TSCA – All chemical components used to manufacture this product comply with the Toxic Substances Control Act (TSCA) registry requirements and are either listed within, or exempted from, the current TSCA 8(b) inventory.

California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986
 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 (1/2020)

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

Issue date	9/19/2016		
Revision date	6/19/2020		
Version #	2		
HMIS® ratings	Health: 2 Flammability: 0 Physical hazard: 0	NFPA ratings	Health: 2 Flammability: 0 Instability: 0

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

ALKALINE



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 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. Add TSCA statement; Logo update