SAFETY DATA SHEET 4496899MFID#12922

SILVER POWER

Section 1. Chemical product and company identification

Product name

: SILVER POWER

Recommended use and

: Presoak

restrictions

Use only for the purpose on the product label.

Product dilution information: Up to 0.6 oz/gal or 4.7 mL/L in water

Supplier's information

: Ecolab Inc. Institutional Division

370 N. Wabasha Street St. Paul, MN 55102 1-800-352-5326

Code

: 961870

Date of issue

: 06 Sep 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026

Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

Product AS SOLD

GHS Classification

: SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 2A

GHS label elements

Signal word

: Warning

Symbol

Hazard statements

: Causes serious eye irritation.

Causes skin irritation.

Precautionary statements

Prevention

: Wash thoroughly after handling.

Response

: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage

: No other specific measures identified.

Disposal

: See section 13 for waste disposal information.

Other hazards

: None known.

Product AT USE DILUTION

Not classified.

No signal word.

No known significant effects or critical hazards

Wash thoroughly after handling.

Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal

information.

None known.

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Section 3. Composition/information on ingre4ip 8899MFID#12922

Substance/mixture

: Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM HYDROXIDE	1	1310-73-2
SODIUM CARBONATE	>50	497-19-8
alcohols, c12-16, ethoxylated	1 - 5	68551-12-2
sodium isononanoate	1 - 5	84501-72-4
TRISODIUM HEDTA	1 - 5	139-89-9

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact		No known effect after eye contact. Rinse with water for a few minutes.
	irritation persists.	
Skin contact	: Take off contaminated clothing. Wash with plenty of soap and water. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.	No known effect after skin contact. Rinse with water for a few minutes.

Inhalation : No special measures required. Treat symptomatically.

No special measures required. Treat symptomatically.

Ingestion : Get medical attention if symptoms occur.

Get medical attention if symptoms occur.

Protection of firstable training. It may be aiders
 No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
 Notes to physician
 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The

exposed person may need to be kept under medical surveillance for 48 hours.

: Decomposition products may include the following materials:

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing : Use water spray, fog or foam. media

Specific hazards arising from the chemical Hazardous thermal

decomposition products

: No specific fire or explosion hazard.

carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

Specific fire-fighting methods

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without

suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

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Section 6. Accidental release measures

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Product AS SOLD

Personal precautions : Use personal protective equipment as required.

Environmental precautions

: Avoid contact of large amounts of spilled material

Methods for cleaning up

and runoff with soil and surface waterways.

: Collect spillage. Use a water rinse for final clean-

Product AT USE DILUTION

Use personal protective equipment as required.

Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

Use a water rinse for final clean-up.

Section 7. Handling and storage

Product AS SOLD

Handling

: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage

: Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: 0 and 40°C

Product AT USE DILUTION Wash thoroughly after handling.

Keep out of reach of children.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
SODIUM HYDROXIDE	ACGIH TLV (United States, 3/2012). C: 2 mg/m³ OSHA PEL (United States, 6/2010). TWA: 2 mg/m³ 8 hours. NIOSH REL (United States, 6/2009). CEIL: 2 mg/m³

Product AS SOLD

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne

contaminants.

Personal protection

Eye protection

: Due to the form and packaging of the product, no protective equipment is needed under normal

use conditions.

Hand protection

: Due to the form and packaging of the product, no protective equipment is needed under normal

use conditions.

Skin protection

: No protective equipment is needed under normal

use conditions.

Respiratory protection

: A respirator is not needed under normal and

intended conditions of product use.

Product AT USE DILUTION

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

A respirator is not needed under normal and intended conditions of product use.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

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Section 9. Physical and chemical properties 4496899MFID#12922

Product AS SOLD

Physical state

: Cast Solid

Color

: Blue [Dark]

Odor

: citrus

pН

: 10.5 (1%)

Flash point

: > 100°C

Explosion limits

: Not available.

Flammability (solid, gas)

: Not available.

Melting point Not available. **Boiling point** : Not available. **Evaporation rate** : Not available.

(butyl acetate = 1)

Vapor pressure Vapor density

: Not available. : Not available.

Relative density

: 1.3 (Water = 1) : Easily soluble in the following materials: cold

Product does not support combustion.

Solubility water and hot water.

Partition coefficient: Not available.

n-octanol/water

Auto-ignition

temperature

: Not available.

Decomposition

: Not available.

temperature

Odor threshold : Not available. Viscosity : Not available.

Section 10. Stability and reactivity

Product AS SOLD

Stability

: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: No specific data.

Materials to avoid

: Slightly reactive or incompatible with the following materials: acids.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

: Skin contact, Eye contact, Ingestion Route of exposure

Product AS SOLD

Symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation

watering redness

Skin contact

: Adverse symptoms may include the following:

irritation redness Product AT USE DILUTION

Product AT USE DILUTION

Liquid. Blue [Light]

citrus

10.5 to 11.5

> 100°C

No specific data.

No specific data.

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Section 11. Toxicological information

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Inhalation

: No specific data. : No specific data.

Ingestion Acute toxicity

Eye contact : Causes serious eye irritation.

Skin contact : Causes skin irritation.

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards. No known significant effects or critical

No specific data.

No specific data.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

Toxicity data

Product/ingredient name

sodium carbonate	LC50 Inhalation Dusts and mists	Rat	1.15 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	2800 mg/kg
alcohols, c12-16, ethoxylated	LD50 Dermal	Rabbit	>2000 mg/kg
•	LD50 Oral	Rat	1100 mg/kg
sodium isononanoate	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	1160 mg/kg
glycine, n-[2-[bis(carboxymethyl)amino] ethyl]-n-(2-hydroxyethyl)-, trisodium salt	LD50 Oral	Rat	10000 mg/kg

Chronic toxicity

: No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. : No known significant effects or critical hazards. Fertility effects

Section 12. Ecological information

Product AS SOLD

Ecotoxicity : This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sodium carbonate	Acute EC50 200 mg/l	Daphnia	48 hours
alcohols, c12-16, ethoxylated	Acute LC50 1.5 mg/l	Fish	96 hours
sodium isononanoate	Acute LC50 160 mg/l	Fish	96 hours
glycine, n-[2-[bis(carboxymethyl)amino]ethyl]-n-	Chronic EC50 >500 mg/l	Daphnia	48 hours
(2-hydroxyethyl)-, trisodium salt	_		
sodium hydroxide	Acute EC50 40 mg/l	Daphnia	48 hours
er i	:c	1	

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Product AS SOLD

: Diluted product can be flushed to sanitary sewer. Disposal methods

Discard empty container in trash.

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

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Section 14. Transport information

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Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification

IMO/IMDG

IMO/IMDG Classification Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Not regulated.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance SARA 302/304 emergency planning and notification: No listed substance

SARA 313 Product name CAS number Concentration

Form R - Reporting

requirements

: No listed substance

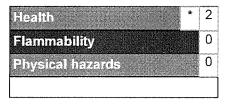
California Prop. 65 : No listed substance

Section 16. Other information

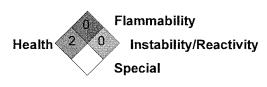
Product AS SOLD

Hazardous Material

Information System (U.S.A.)



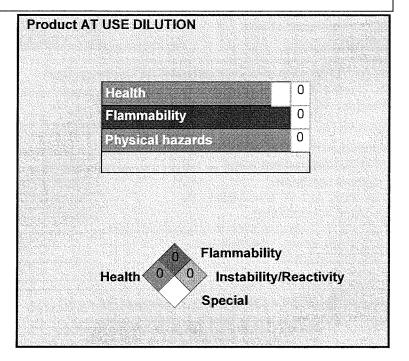
National Fire Protection Association (U.S.A.)



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1-800-352-5326

Notice to reader



Section 16. Other information

Section 16. Other information 4496899MFID#12922

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

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