## SAFETY DATA SHEET



ALUMINUM-SAFE ALKALINE DETERGENT

## Section 1. Chemical product and company identification

Product name : ALUMINUM-SAFE ALKALINE DETERGENT

Recommended use and

restrictions

: Instrument cleaner

Use only for the purpose on the product label.

Product dilution information: Up to 1 oz/gal or 7.8 mL/L in water

**Supplier's information**: Ecolab Inc. Healthcare Division

370 N. Wabasha St. St. Paul, MN 55102 1-866-781-8787

**Code** : 913465-07 **Date of issue** : **27 Nov 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 1

SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 1

SKIN SENSITIZATION - Category 1

**GHS label elements** 

Signal word : Danger

Symbol :





**Hazard statements**: Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

**Precautionary statements** 

**Prevention**: Wear protective gloves. Wear eye or face

protection. Wear protective clothing. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should

not be allowed out of the workplace.

**Response** : IF INHALED: Remove victim to fresh air and

keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. If skin

**Product AT USE DILUTION** 

SKIN CORROSION/IRRITATION - Category

1

SERIOUS EYE DAMAGE/ EYE IRRITATION

- Category 1

Danger



Causes severe skin burns and eye damage.

Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with

Page: 1/7

### Section 2. Hazards identification

irritation or rash 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. Immediately call a POISON CENTER or

physician.

**Storage**: No other specific measures identified.

**Disposal**: See section 13 for waste disposal information.

Other hazards : None known.

water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

No other specific measures identified.

See section 13 for waste disposal

information.

None known.

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

**Product AS SOLD** 

Hazardous ingredients	Concentration Range (%)	CAS number
POTASSIUM HYDROXIDE	2	1310-58-3
silicic acid (h2sio3), dipotassium salt	5 - 20	10006-28-7
SODIUM METASILICATE	5 - 20	6834-92-0
dihydro-3-(octenyl)furan-2,5-dione	1 - 5	26680-54-6

### **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	SOL	_D
---------	----	-----	----

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention

immediately.

**Skin contact**: Take off immediately all contaminated clothing.

Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention immediately.

**Ingestion**: Get medical attention immediately. Rinse mouth.

Do not induce vomiting.

### **Product AT USE DILUTION**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get

medical attention immediately.

Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention immediately.

Get medical attention immediately. Rinse

mouth. Do not induce vomiting.

Protection of first-

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. Wash contaminated

clothing thoroughly with water before removing it, or wear gloves.

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have

been ingested or inhaled.

See toxicological information (section 11)

## Section 5. Fire-fighting measures

**Product AS SOLD** 

Suitable fire extinguishing

media

: Use water spray, fog or foam.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur 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

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

### Section 6. Accidental release measures

### Product AS SOLD

Personal precautions : Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled

material.

**Environmental** precautions **Methods for** cleaning up

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

: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/ neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

### **Product AT USE DILUTION**

Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.

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

Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

## Section 7. Handling and storage

### **Product AS SOLD**

Handling

: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

Storage

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

Store between the following temperatures: 0 and 50°C

### Product AT USE DILUTION

Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

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

## Section 8. Exposure controls/personal protection

### **Control parameters**

Ingredient name	Exposure limits
POTASSIUM HYDROXIDE	ACGIH TLV (United States, 3/2012). C: 2 mg/m³ NIOSH REL (United States, 6/2009). TWA: 2 mg/m³ 10 hours.

### **Product AS SOLD**

### Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Personal protection

Eye protection

: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Hand protection

: Use chemical-resistant, impervious gloves.

Skin protection

: Use synthetic apron, other protective equipment

as necessary to prevent skin contact.

Respiratory protection

: 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,

### **Product AT USE DILUTION**

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Use chemical-resistant, impervious gloves. Use synthetic apron, other protective equipment as necessary to prevent skin contact.

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

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.

## Section 9. Physical and chemical properties

### **Product AS SOLD**

: Not available.

Physical state : Liquid.

Color : Amber [Light] Odor : Ammoniacal На : 13.84 (100%) Flash point : > 100°C **Explosion limits** : Not available.

Flammability (solid,

gas)

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

(butyl acetate = 1)

Vapor pressure : Not available. Vapor density : Not available.

Relative density : 1.185 to 1.27 (Water = 1)

Solubility : Easily soluble in the following materials: cold

water and hot water.

### **Product AT USE DILUTION**

Liquid. Hazy liquid Odorless 11.89 to 12.21 > 100°C

## Section 9. Physical and chemical properties

Partition coefficient: : Not available.

n-octanol/water

Auto-ignition temperature

: Not available.

Decomposition

: Not available.

temperature Odor threshold

: Not available.

Viscosity : Kinematic (room temperature): 0 cm²/s (0 cSt)

## 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 : Highly reactive or incompatible with the following materials: acids.

Reactive or incompatible with the following materials: metals.

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## **Section 11. Toxicological information**

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

**Product AS SOLD** 

<u>Symptoms</u>

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Inhalation** : Adverse symptoms may include the following:

coughing

Respiratory tract irritation

**Ingestion**: Adverse symptoms may include the following:

stomach pains

Acute toxicity

**Eye contact** : Causes serious eye damage.

**Skin contact**: Causes severe burns. May cause an allergic

skin reaction.

**Inhalation**: May cause respiratory irritation.

**Ingestion**: May cause burns to mouth, throat and stomach.

**Product AT USE DILUTION** 

Adverse symptoms may include the following:

pain watering redness

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Adverse symptoms may include the following:

coughing

Respiratory tract irritation

Adverse symptoms may include the following:

stomach pains

Causes serious eye damage.

Causes severe burns.

May cause respiratory irritation.

May cause burns to mouth, throat and

stomach.

### **Toxicity data**

Product/ingredient name

disodium metasilicate LD50 Oral Rat 500 mg/kg dihydro-3-(octenyl)furan-2,5-dione LD50 Dermal Rat 6250 mg/kg LD50 Oral Rat >500 mg/kg

**Chronic toxicity** 

**Carcinogenicity** : No known significant effects or critical hazards.

## Section 11. Toxicological information

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

## Section 12. Ecological information

**Product AS SOLD** 

**Ecotoxicity** : No known significant effects or critical hazards.

**Aquatic and terrestrial toxicity** 

Product/ingredient nameResultSpeciesExposuredisodium metasilicateAcute LC50 210 mg/lFish96 hourspotassium hydroxideAcute LC50 80 mg/lFish96 hours

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

## Section 13. Disposal considerations

**Product AS SOLD** 

**Disposal methods** : Avoid disposal. Attempt to use product

completely in accordance with intended use. Disposal should be in accordance with applicable

regional, national and local laws and regulations.

RCRA classification: Unused product is D002 (Corrosive)

### **Product AT USE DILUTION**

Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

## **Section 14. Transport information**

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 UN3266

**DOT Proper shipping name**Corrosive liquid, basic, inorganic, n.o.s. (Sodium metasilicate)

Class 8
Packing group III

**IMO/IMDG** 

IMO/IMDG Classification UN3266

IMO/IMDG Proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate)

Class 8
Packing group III

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

### Product AT USE DILUTION

Not intended for transport.

Page: 6/7

## **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

**Product name CAS** number **Concentration SARA 313** 

Form R - Reporting

requirements

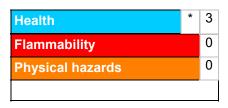
: No listed substance

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.)



Date of issue : 27 Nov 2013 Prepared by : Regulatory Affairs

# 1-800-352-5326

### Notice to reader

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.

