# **Material Safety Data Sheet**



LIME-A-WAY

#### Product and company identification 1.

Trade name of product

: LIME-A-WAY

Product use

: Delimer

Product dilution information : Up to 3 oz/gal or 23 ml/L in water

Supplier's information

: Ecolab Inc. Institutional Division

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

Code

: 913153

Date of issue

: 28-February-2012

**EMERGENCY HEALTH INFORMATION: 1-800-328-0026** Outside United States and Canada CALL 1-651-222-5352 (in USA)

#### 2. Hazards identification

**Product AS SOLD** 

Physical state

: Liquid.

**Emergency** overview

: DANGER!

CAUSES DIGESTIVE TRACT, EYE AND SKIN

BURNS.

MAY BE HARMFUL IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or on

clothing. Wash thoroughly after handling.

Potential acute health effects

**Product AS SOLD** 

Eves Skin

: Corrosive to eyes. : Corrosive to the skin.

Inhalation

No known significant effects or critical hazards.

Ingestion

: Causes burns to mouth, throat and stomach. May be

harmful if swallowed.

See toxicological information (Section 11)

Product AT USE DILUTION

Liquid.

CAUTION!

MAY CAUSE EYE IRRITATION.

Avoid contact with eyes. Wash thoroughly

after handling.

**Product AT USE DILUTION** 

Slightly irritating to the eyes.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

#### Composition/information on ingredients 3.

**Product AS SOLD** 

CAS number % by weight Name uronium hydrogen sulphate 21351-39-3 20 - 50**UREA** 57-13-6 1 - 5

Product AT USE DILUTION

CAS number % by weight Name 21351-39-3 uronium hydrogen sulphate <1

### 4. First aid measures

#### Product AS SOLD

Eye contact

In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes.

Get medical attention immediately.

Skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

Inhalation

: No special measures required. Treat symptomatically,

Ingestion

: If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

#### Product AT USE DILUTION

Rinse with water for a few minutes.

No known effect after skin contact. Rinse with water for a few minutes.

No special measures required. Treat symptomatically.

Get medical attention if symptoms occur.

### 5. Fire-fighting measures

**Product AS SOLD** 

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

Fire-fighting media and instructions

Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.

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

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.

### 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

: Avoid contact of spilled material and runoff with soil

and surface waterways.

Methods for cleaning up : 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 water rinse for final clean-up.

### **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.

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#### Handling and storage 7.

**Product AS SOLD** 

Do not ingest. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

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

Do not store above the following temperature: 50°C

### Product AT USE DILUTION

Avoid contact with eyes. Wash thoroughly after handling.

Keep out of reach of children. Store in a closed container.

#### 8. Exposure controls/personal protection

#### **Product AS SOLD**

### Engineering measures

Handling

: 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

**Eyes** 

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

Hands

Skin

: Use chemical-resistant, impervious gloves.

: Use suitable protective equipment.

Respiratory

: No special protection is required.

### 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.

No special protection is required.

Product AT USE DILUTION

Liquid.

> 100°C

Blue [Light] Odorless

0.9 to 1.8

#### 9. Physical and chemical properties

**Product AS SOLD** 

Consult local authorities for acceptable exposure limits.

Physical state Flash point

: Liquid. : > 100°C : Green [Dark] : Odorless

Color Odor

: 0.1 to 0.2 [Conc. (% w/w): 100%]

Boiling/condensation : 100°C (212°F)

point

Relative density: 1.132 to 1.162

Solubility

: Easily soluble in the following materials; cold water

and hot water.

#### 10. Stability and reactivity

### Product AS SOLD

Stability

The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

Reactivity

Highly reactive or incompatible with the following materials: alkalis. Slightly 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.

Hazardous polymerization

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

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#### **Toxicological information** 11.

Potential acute health effects

**Product AS SOLD** 

Eyes

: Corrosive to eyes.

Skin

: Corrosive to the skin.

Inhalation

No known significant effects or critical hazards.

Ingestion

: Causes burns to mouth, throat and stomach. May be

harmful if swallowed.

Product AT USE DILUTION

Slightly irritating to the eyes.

Product AT USE DILUTION

Diluted product can be flushed to sanitary

sewer. Discard empty container in trash.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

#### **Ecological information** 12.

**Ecotoxicity** 

: Not reported

#### **Disposal considerations** 13.

**Product AS SOLD** 

: 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** 

: Unused product is D002 (Corrosive)

classification

# 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.

Product AS SOLD

**DOT Classification** 

UN3265

**DOT Proper shipping name** 

Corrosive liquid, acidic, organic, n.o.s. (Urea Sulfate)

Class

Packing group

For transport in bulk or using IMDG regulations, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

#### Regulatory information **15**.

**Product AS SOLD** 

**HCS** 

: Corrosive material

Classification

**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

Product AT USE DILUTION

Not regulated.

Concentration

Form R - Reporting

requirements

: No listed substance

California Prop. 65

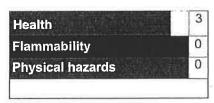
: No listed substance

# 15. Regulatory information

### 16. Other information

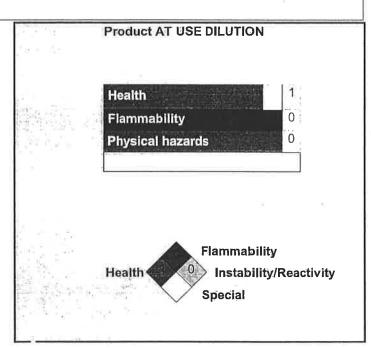
Product AS SOLD

Hazardous Material Information System (U.S.A.)



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





Date of issue

: 28-February-2012

Responsible name

: Regulatory Affairs

1-800-352-5326

Indicates information that has changed from previously issued version.

#### 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.

# **Material Safety Data Sheet**



SOLID POWER XL

# 1. Product and company identification

Trade name of product

: SOLID POWER XL

Product use

: Machine Warewashing Detergent

Product dilution information: Up to 0.5 oz/gal or 4 mL/L in water

THE REPORT OF THE ASSESSMENT OF THE PARTY.

Supplier's information

: Ecolab Inc. Institutional Division

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

Code

: 913472

Date of issue

: 04-January-2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

### 2. Hazards identification

Product AS SOLD

Physical state

: Cast Solid

Emergency overview

: WARNING!

CAUSES SEVERE EYE AND SKIN IRRITATION.
Untreated contact may cause severe irritation or

chemical burns.

May cause burns to mouth, throat and stomach. Do not ingest. Do not get in eyes, on skin or on

clothing. Wash thoroughly after handling.

Potential acute health effects

**Product AS SOLD** 

Eyes

: Severely irritating to eyes. Untreated contact may

cause chemical burns.

Skin

: Severely irritating to the skin. Untreated contact may

cause severe irritation or chemical burns.

Inhalation

: No known significant effects or critical hazards.

Ingestion

: May cause burns to mouth, throat and stomach.

**Product AT USE DILUTION** 

Liquid.

CAUTION!

MAY CAUSE EYE IRRITATION.

Avoid contact with eyes. Wash thoroughly

after handling.

Product AT USE DILUTION

Moderately irritating to eyes.

Slightly irritating to the skin.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

See toxicological information (Section 11)

# 3. Composition/information on ingredients

### **Product AS SOLD**

<u>Name</u>	CAS number	% by weight
SODIUM HYDROXIDE	1310-73-2	65
SODIUM CARBONATE	497-19-8	5 - 20
oxirane, methyl-, polymer with oxirane	9003-11-6	1 - 5
2-propenoic acid, polymer with 2,5-furandione, sodium salt	52255-49-9	1 - 5

### **Product AT USE DILUTION**

Name		CAS number	% by weight
SODIUM HYDROXIDE		1310-73-2	< 0.5

# 3. Composition/information on ingredients

### 4. First aid measures

### Eye contact

Product AS SOLD

In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

: No special measures required. Treat symptomatically.

Ingestion

: If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### Product AT USE DILUTION

In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.

Rinse with water for a few minutes.

No special measures required. Treat symptomatically.

Get medical attention if symptoms occur.

# 5. Fire-fighting measures

#### **Product AS SOLD**

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide phosphorus oxides metal oxide/oxides

Fire-fighting media and instructions

: Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff. No specific fire or explosion hazard.

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

# 6. Accidental release measures

# Personal precautions

#### Product AS SOLD

: 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 sp. lled material.

Environmental precautions

: Avoid contact of spilled material and runoff with soil

and surface waterways.

Methods for cleaning up

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

### **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.

SOLID POWER XL 4 January 2013

### 7. Handling and storage

**Product AS SOLD** 

Handling : Do not ingest. Do not get in eyes, on skin, or on

clothing. Do not breathe dust. Keep container closed. 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: -10 and

50°C

### **Product AT USE DILUTION**

Avoid contact with eyes. Wash thoroughly after handling.

Keep out of reach of children. Store in a closed container.

### 8. Exposure controls/personal protection

**Product AS SOLD** 

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Provide suitable facilities for quick drenching or flushing of the

eyes and body in case of contact or splash hazard.

Personal protection

Eyes : Due to the form and packaging of the product, no

protective equipment is needed under normal use conditions. Chemical splash goggles, impervious gloves and apron should be used when there is a likelihood of exposure to concentrated product.

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

conditions.

**Skin**: Due to the form and packaging of the product, no

protective equipment is needed under normal use

conditions.

Respiratory : Due to the form and packaging of the product, no

protective equipment is needed under normal use

conditions.

**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.

No special protection is required.

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

# 9. Physical and chemical properties

Product AS SOLD

Physical state Flash point

: Cast Solid : > 100°C : White

Color Odor

: Odorless

На

: 12.5 to 12.8 [Conc. (% w/w): 1%]

Product AT USE DILUTION

Liquid. > 100°C Clear Odorless 10.1 to 12:6 SOLID POWER XL 4 January 2013

# 10. Stability and reactivity

**Product AS SOLD** 

Stability

: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

Reactivity

Extremely reactive or incompatible with the following materials: acids. Highly reactive or incompatible with the following materials: metals. Reactive or incompatible with the following materials: organic materials.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization

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

# 11. Toxicological information

#### Potential acute health effects

### Product AS SOLD

Eyes

: Severely irritating to eyes. Untreated contact may cause chemical burns.

Skin

: Severely irritating to the skin. Untreated contact may

cause severe irritation or chemical burns.

Inhalation

: No known significant effects or critical hazards.

Ingestion

: May cause burns to mouth, throat and stomach.

#### Product AT USE DILUTION

Moderately irritating to eyes.

Slightly irritating to the skin.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

### Product AS SOLD

Other adverse effects
Target organs

: There is no known chronic effect after exposure to this product.

# 12. Ecological information

**Ecotoxicity** 

: Not reported

# 13. Disposal considerations

### **Product AS SOLD**

Waste disposal

: 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.

#### Product AT USE DILUTION

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

### 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.

### **Product AS SOLD**

DOT

DOT Classification

UN1823

**DOT Proper shipping name** 

Sodium hydroxide, solid mixture

Class

8

Packing group

П

**IMO/IMDG** 

**IMO/IMDG Classification** 

UN1823

IMO/IMDG Proper shipping name

SODIUM HYDROXIDE, SOLID mixture

Class

8

SOLID POWER XL

4 January 2013

# 14. Transport information

Packing group

11

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

**Product AT USE DILUTION** 

Not intended for transport.

### 15. Regulatory information

**Product AS SOLD** 

**HCS** 

: Corrosive material

Classification
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

Product AT USE DILUTION

Irritating material

Concentration

Form R - Reporting

requirements

: No listed substance

California Prop. 65

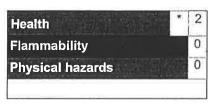
: No listed substance

### 16. Other information

Product AS SOLD

Hazardous Material

Information System (U.S.A.)



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



Health 1
Flammability 0
Physical hazards 0
Flammability
Health 0
Instability/Reactivity
Special

Date of issue

: 04-January-2013

Responsible name

: Regulatory Affairs

1-800-352-5326

▼ Indicates information that has changed from previously issued version.

Notice to reader

SOLID POWER XL 4 January 2013

### 16. Other information

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