

## LIME-A-WAY

# SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

LIME-A-WAY

EcoLab Lime-A-Way

Other means of identification

not applicable

Recommended use

Delimer

Restrictions on use

Reserved for industrial and professional use.

Product dilution information

0.8 % - 2.3 %

Company

Ecolab Inc.

370 N. Wabasha Street

St. Paul, Minnesota USA 55102

1-800-352-5326

Emergency telephone

1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date

08/06/2014

## **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

**Product AS SOLD** 

Skin corrosion

Category 1A

Serious eye damage : Category 1

**Product AT USE DILUTION** 

Skin corrosion

Category 1A

Serious eye damage

Category 1

#### **GHS Label element**

## **Product AS SOLD**

Hazard pictograms



Signal Word

Danger

**Hazard Statements** 

Causes severe skin burns and eye damage.

**Precautionary Statements** 

Prevention:

Wash skin thoroughly after handling. Wear protective gloves/

protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 doctor/ physician. Wash

contaminated clothing before reuse.

Storage:

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Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

**Product AT USE DILUTION** 

Hazard pictograms



Signal Word

Danger

Hazard Statements

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contaminated clothing before reuse.

Storage: Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

: None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product AS SOLD** 

Pure substance/mixture

Mixture

**Chemical Name** 

CAS-No. 21351-39-3 Concentration (%)

uronium hydrogen sulphate Urea

57-13-6

10 - 301 - 5 0.1 - 1

oxirane, methyl-, polymer with oxirane

9003-11-6

#### **Product AT USE DILUTION**

No hazardous ingredients

## **SECTION 4. FIRST AID MEASURES**

**Product AS SOLD** 

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention immediately.

In case of skin contact

: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean

shoes before reuse. Get medical attention immediately.

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If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Get medical attention

immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if

symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal

protective equipment.

Notes to physician : Treat symptomatically.

**Product AT USE DILUTION** 

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use

a mild soap if available. Wash clothing before reuse. Thoroughly clean

shoes before reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Get medical attention

immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if

symptoms occur.

See toxicological information (Section 11)

## **SECTION 5. FIRE-FIGHTING MEASURES**

**Product AS SOLD** 

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fighting

: Not flammable or combustible.

Hazardous combustion

products

Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

Special protective equipment

for fire-fighters

: Use personal protective equipment.

Specific extinguishing

methods

: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire

and/or explosion do not breathe fumes.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Product AS SOLD** 

Personal precautions, : Ensure adequate ventilation. Keep people away from and upwind of

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protective equipment and emergency procedures

spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** 

Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

## **Product AT USE DILUTION**

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** 

Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

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## **SECTION 7. HANDLING AND STORAGE**

**Product AS SOLD** 

Advice on safe handling

: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage

Keep away from strong bases. Keep out of reach of children. Store in suitable labeled containers.

Storage temperature

: 0 °C to 50 °C

**Product AT USE DILUTION** 

Advice on safe handling

Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate

ventilation. Wash hands thoroughly after handling.

Conditions for safe storage

Keep away from strong bases. Keep out of reach of children. Store in

suitable labeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD Ingredients with workplace control parameters

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Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Urea	57-13-6	TWA	10 mg/m3	WEEL

Engineering measures

: Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection

: Safety goggles

Face-shield

Hand protection

: Wear the following personal protective equipment:

Standard glove type.

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Skin protection

: Personal protective equipment comprising: suitable protective gloves,

safety goggles and protective clothing

Respiratory protection

: When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

Hygiene measures

 Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.
 Wash face, hands and any exposed skin thoroughly after handling.
 Provide suitable facilities for quick drenching or flushing of the eyes

and body in case of contact or splash hazard.

**Product AT USE DILUTION** 

Engineering measures

Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection

: Safety goggles

Face-shield

Hand protection

Wear the following personal protective equipment:

Standard glove type.

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Skin protection

Personal protective equipment comprising: suitable protective gloves,

safety goggles and protective clothing

Respiratory protection

When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Product AS SOLD Product AT USE DILUTION

Appearance

: liquid

liquid

Color

clear, dark green

light blue

Odor

odorless

odorless

pН

: 0.1 - 0.2, 100 %

0.9 - 1.8

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## IME-A-WAY

Flash point

: not applicable

Odor Threshold

no data available

Melting point/freezing point

no data available

Initial boiling point and

Evaporation rate

: 100 °C

boiling range

no data available

Flammability (solid, gas)

: no data available no data available

Upper explosion limit Lower explosion limit

no data available no data available

Relative vapor density

no data available

Relative density

Vapor pressure

1.132 - 1.162

Water solubility

soluble

Solubility in other solvents

: no data available

Partition coefficient: n-

: no data available

octanol/water

Autoignition temperature

: no data available

Thermal decomposition

: no data available : no data available

Viscosity, kinematic Explosive properties

no data available

Oxidizing properties Molecular weight

no data available no data available

VOC

no data available

## **SECTION 10. STABILITY AND REACTIVITY**

**Product AS SOLD** 

Chemical stability

: Stable under normal conditions.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid

: None known.

Incompatible materials

Bases Metals

Hazardous decomposition

products

Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation, Eye contact, Skin contact

exposure

**Potential Health Effects** 

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**Product AS SOLD** 

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

**Product AT USE DILUTION** 

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

## **Experience with human exposure**

**Product AS SOLD** 

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**Product AT USE DILUTION** 

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

: no data available

## **Toxicity**

**Product AS SOLD** 

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation

Respiratory or skin : no data available

sensitization

Carcinogenicity : no data available

Reproductive effects : no data available

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Germ cell mutagenicity

: no data available

Teratogenicity

: no data available

STOT-single exposure

: no data available

STOT-repeated exposure

: no data available

Aspiration toxicity

: no data available

Ingredients

Acute oral toxicity

: uronium hydrogen sulphate

LD50 rat: > 2,000 mg/kg

Urea

LD50 rat: 8,471 mg/kg

Ingredients

Acute inhalation toxicity

: Urea

4 h LC50 rat: > 2.71 mg/l

oxirane, methyl-, polymer with oxirane

4 h LC50 rat: 0.147 mg/l

Ingredients

Acute dermal toxicity

: uronium hydrogen sulphate

LD50 rabbit: > 2,000 mg/kg

Urea

LD50 rat: 8,200 mg/kg

## **SECTION 12. ECOLOGICAL INFORMATION**

**Product AS SOLD** 

**Ecotoxicity** 

**Environmental Effects** 

: This product has no known ecotoxicological effects.

**Product** 

Toxicity to fish

: no data available

Toxicity to daphnia and other

aquatic invertebrates

: no data available

Toxicity to algae

: no data available

Ingredients

Toxicity to fish

: uronium hydrogen sulphate

96 h LC50 Fish: > 6,810 mg/l

Urea

96 h LC50 Fish: 127.9 mg/l

oxirane, methyl-, polymer with oxirane

96 h LC50 Fish: > 100 mg/l

Persistence and degradability

no data available

**Bioaccumulative potential** 

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no data available

# Mobility in soil

no data available

#### Other adverse effects

no data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**Product AS SOLD** 

Disposal methods : Where possible recycling is preferred to disposal or incineration. If

recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to

an approved waste handling site for recycling or disposal. Do not re-

use empty containers.

RCRA - Resource

Conservation and Recovery Authorization Act Hazardous

waste

: D002 (Corrosive)

Product AT USE DILUTION

Disposal methods : Where possible recycling is preferred to disposal or incineration. If

recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations

Dispose of as unused product. Empty containers should be taken to

an approved waste handling site for recycling or disposal. Do not re-

use empty containers.

# **SECTION 14. TRANSPORT INFORMATION**

#### **Product AS SOLD**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN number : 3265

Description of the goods : Corrosive liquid, acidic, organic, n.o.s.

(uronium hydrogen sulphate)

Class : 8

Packing group : II

Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 3265

Description of the goods : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(uronium hydrogen sulphate)

Class

: 8

Packing group
Marine pollutant

: II : no

**Product AT USE DILUTION** 

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## LIME-A-WAY

Not intended for transport.

## **SECTION 15. REGULATORY INFORMATION**

#### **Product AS SOLD**

**EPCRA - Emergency Planning and Community Right-to-Know** 

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: Acute Health Hazard

**SARA 302** 

: SARA 302: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

**SARA 313** 

: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis)

reporting levels established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

## The ingredients of this product are reported in the following inventories:

## 1907/2006 (EU):

not determined

# **United States TSCA Inventory:**

On TSCA Inventory:

#### Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL.

#### Australia Inventory of Chemical Substances (AICS):

not determined

#### New Zealand. Inventory of Chemical Substances:

On the inventory, or in compliance with the inventory

# Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

## Japan. ISHL - Inventory of Chemical Substances (METI) :

not determined

## Korea. Korean Existing Chemicals Inventory (KECI):

not determined

## Philippines Inventory of Chemicals and Chemical Substances (PICCS):

not determined

## China. Inventory of Existing Chemical Substances in China (IECSC):

not determined

## LIME-A-WAY

## **SECTION 16. OTHER INFORMATION**

# Product AS SOLD NFPA:

Special hazard.

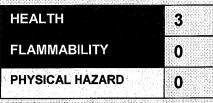
#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

Product AT USE DILUTION

## HMIS III:



0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

Issuing date

: 08/06/2014

Version

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Prepared by

: Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 relates 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 in the text.