

SECTION 1. PRODUCT AND	COMPANY IDENTIFICATION
Product name	: LIME-A-WAY
Product number	: L1013
Recommended use	: Delimer
Restrictions on use	: Reserved for industrial and professional
Product dilution information	use. : 0.8 % - 2.3 %
Company	: Rocky Mountain Reagents 4621 Technology Drive Golden, CO 80403 303-762-0800
Emergency telephone	: 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)
Issuing date	: 08/31/2015
SECTION 2. HAZARDS IDEN	NTIFICATION
GHS Classification Product AS SOLD Skin corrosion Serious eye damage	: Category 1A : Category 1
<b>Product AT USE DILUTION</b> Skin corrosion Serious eye damage	: Category 1A : Category 1
GHS Label element	
Product AS SOLD Hazard pictograms	
Signal Word	: Danger
Hazard Statements	: Causes severe skin burns and eye damage.
Precautionary Statements	<ul> <li>Prevention: Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>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.</li> </ul>

LIME-A-WAY		
		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	:	Causes severe skin burns and eye damage.
Precautionary Statements	:	<ul> <li>Prevention:</li> <li>Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>Response:</li> <li>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.</li> <li>Storage:</li> <li>Store locked up.</li> <li>Dispose of contents/ container to an approved waste disposal plant.</li> </ul>
Other hazards	:	None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD Pure substance/mixture : Mixture		
<b>Chemical Name</b>	<b>CAS-No.</b>	<b>Concentration (%)</b>
uronium hydrogen sulphate	21351-39-3	10 - 30
Urea	57-13-6	1 - 5
oxirane, methyl-, polymer with oxirane	9003-11-6	0.1 - 1

#### Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID ME	EASURES
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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LIME-A-WAY		
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	

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.	e

# SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Product AS SOLD

Personal precautions,

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

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LIME-A-WAY		
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	:	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.

## SECTION 7. HANDLING AND STORAGE

<b>Product AS SOLD</b> 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

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 :	Standard glove Gloves should b	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 :		st ventilation sys onal exposure st	stem. Maintain air con andards.	centrations
Personal protective equipment	t			
Eye protection :	Safety goggles Face-shield			
Hand protection :	Standard glove Gloves should I	type.	tective equipment: d replaced if there is a nrough.	ny indication of
Skin protection :		ctive equipment of and protective cl	comprising: suitable p othing	rotective gloves,
Respiratory protection :		are facing conce priate certified re	ntrations above the ex espirators.	posure limit they

# 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
рН	: 0.1 - 0.2, 100 %	0.9 - 1.8

Flash point	:	not applicable
Odor Threshold	:	no data available
Melting point/freezing point	:	no data available
Initial boiling point and boiling range	:	100 °C
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapor pressure	:	no data available
Relative vapor density	:	no data available
Relative density	:	1.132 - 1.162
Water solubility	:	soluble
Solubility in other solvents	:	no data available
Partition coefficient: n- octanol/water	:	no data available
Autoignition temperature	:	no data available
Thermal decomposition	:	no data available
Viscosity, kinematic	:	no data available
Explosive properties	:	no data available
Oxidizing properties	:	no data available
Molecular weight	:	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**

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.
Descived AT LIGE DU LITION	
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.
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# 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
Toxicity	
Toxicity Product AS SOLD Acute oral toxicity	: no data available
Product AS SOLD	<ul><li>no data available</li><li>no data available</li></ul>
Product AS SOLD Acute oral toxicity	
<b>Product AS SOLD</b> Acute oral toxicity Acute inhalation toxicity	: no data available
<b>Product AS SOLD</b> Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity	<ul><li>no data available</li><li>no data available</li></ul>
Product AS SOLD Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Serious eye damage/eye	<ul> <li>no data available</li> <li>no data available</li> <li>no data available</li> </ul>
Product AS SOLD Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin	<ul> <li>no data available</li> </ul>

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**

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 incinerati recycling is not practicable, dispose of in compliance with loca regulations. Dispose of wastes in an approved waste disposa	al
Disposal considerations	Dispose of as unused product. Empty containers should be ta an approved waste handling site for recycling or disposal. Do 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 incinerati recycling is not practicable, dispose of in compliance with loca regulations. Dispose of wastes in an approved waste disposa	al
Disposal considerations	Dispose of as unused product. Empty containers should be ta an approved waste handling site for recycling or disposal. Do 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.
Description of the goods	(uronium hydrogen sulphate)
Class	: 8
Packing group	: 11
Environmentally hazardous	: no
Sea transport (IMDG/IMO) UN number Description of the goods Class Packing group Marine pollutant	<ul> <li>3265</li> <li>CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (uronium hydrogen sulphate)</li> <li>8</li> <li>II</li> <li>no</li> </ul>

#### 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	cute Health Hazard	
SARA 302	ARA 302: No chemicals in this material are subject to the re equirements of SARA Title III, Section 302.	eporting
SARA 313	ARA 313: This material does not contain any chemical com ith known CAS numbers that exceed the threshold (De Min eporting 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

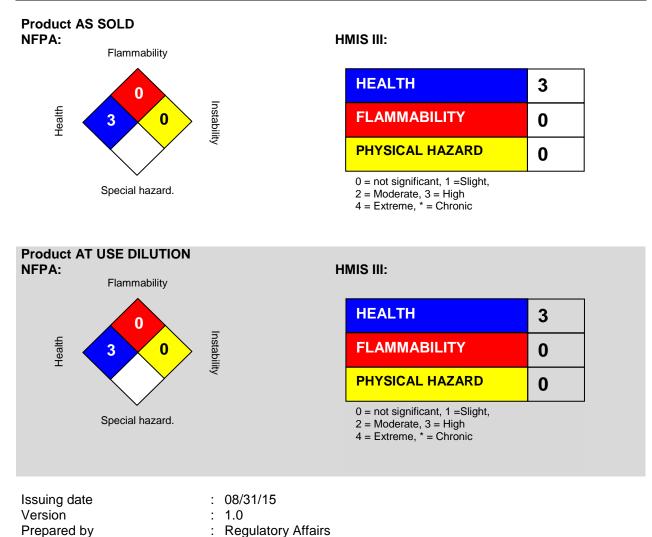
Japan. ISHL - Inventory of Chemical Substances (METI) : not determined

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

#### **SECTION 16. OTHER INFORMATION**



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

The information provided in this 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.