# SAFETY DATA SHEET



#### DELIMER NON-CORROSIVE LIME SCALE REMOVER

### Section 1. Chemical product and company identification

Product name : DELIMER NON-CORROSIVE LIME SCALE REMOVER

Recommended use and

restrictions

: Delimer

Use only for the purpose on the product label.

Product dilution information : 1.5 oz / 32.0 oz

**Supplier's information**: Kay Chemical Company

8300 Capital Drive Greensboro NC 27409

1-800-529-5458 (Customer Service)

Code : 912272-05

Date of issue : 23 Oct 2013

EMERGENCY HEALTH INFORMATION: 1-877-231-2615 Outside United States and Canada CALL 0-952-853-1713

### Section 2. Hazards identification

**Product AS SOLD** 

GHS Classification : SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 2A

**GHS label elements** 

Signal word : Warning

Symbol

Storage

**Hazard statements**: Causes serious eye irritation.

**Precautionary statements** 

**Prevention**: Wear eye or face protection. Do not mix with

bleach or other chlorinated products - will cause chlorine gas. Wash hands thoroughly

after handling.

**Response** : 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.

: No other specific measures identified.

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

Other hazards : None known.

Causes eye irritation.

- Category 2B

Warning

**Product AT USE DILUTION** 

SERIOUS EYE DAMAGE/ EYE IRRITATION

Wash hands thoroughly after handling.

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.

No other specific measures identified. See section 13 for waste disposal

information.

None known.

Page: 1/7

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

**Product AS SOLD** 

**Hazardous ingredients Concentration Range (%) CAS** number

CITRIC ACID >50 77-92-9

**Product AT USE DILUTION** 

**Hazardous ingredients Concentration Range (%) CAS** number

CITRIC ACID 1 - 5 77-92-9

### Section 4. First aid measures

**Product AS SOLD** 

Eye contact : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if

irritation persists.

: No known effect after skin contact. Rinse with Skin contact

water for a few minutes.

Inhalation : No special measures required. Treat

symptomatically.

Ingestion : Get medical attention if symptoms occur.

: No action shall be taken involving any personal risk or without suitable training. It may be

**Product AT USE DILUTION** 

with water for a few minutes.

symptomatically.

Rinse cautiously with water for several

and easy to do. Continue rinsing. Get

No known effect after skin contact. Rinse

Get medical attention if symptoms occur.

medical attention if irritation persists.

No special measures required. Treat

minutes. Remove contact lenses, if present

dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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** 

Protection of first-

Suitable fire extinguishing

media

aiders

Specific hazards arising from the chemical

Hazardous thermal

decomposition products

Specific fire-fighting

methods

carbon dioxide

: Decomposition products may include the following materials:

carbon monoxide

: Use water spray, fog or foam.

: No specific fire or explosion hazard.

: 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

### Section 6. Accidental release measures

Page: 2/7

### Section 6. Accidental release measures

#### **Product AS SOLD**

Personal precautions

precautions

Environmental

: Use personal protective equipment as required.

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

required.
rial Avoid contact of

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

Use personal protective equipment as

Use a water rinse for final clean-up.

Methods for cleaning up

Handling

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

# Section 7. Handling and storage

Product AS SOLD

: Avoid contact with eyes, skin and clothing. Do not mix with bleach or other chlorinated products - will cause chlorine gas. Wash thoroughly after handling.

nandling.

**Storage** : Keep out of reach of children. Keep container

tightly closed.

Store between the following temperatures: 0 and 50°C

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

**Product AT USE DILUTION** 

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

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

**Product AT USE DILUTION** 

contaminants.

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

normal use conditions.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

Ingredient name	Exposure limits
None.	

#### **Product AS SOLD**

Appropriate engineering controls

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

contaminants.

Personal protection

**Eye protection**: Wear eye protection.

**Hand protection**: No protective equipment is needed under normal

use conditions.

**Skin protection**: No protective equipment is needed under normal

use conditions.

Respiratory protection

Hygiene measures

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

normal use conditions.

No protective equipment is needed under

No protective equipment is needed under

No protective equipment is needed under

normal use conditions.

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

Good general ventilation should be sufficient

to control worker exposure to airborne

: Wash hands, forearms and face thoroughly after handling chemical products, before eating,

## Section 9. Physical and chemical properties

before reusing.

Page: 3/7

## Section 9. Physical and chemical properties

**Product AS SOLD** 

Physical state : Solid Color : White Odor : Odorless Hq : Not applicable Flash point : > 100°C

Product does not support combustion.

**Explosion limits** Flammability (solid, gas)

: Not available. : Not available.

**Melting point Boiling point Evaporation rate** 

: Not available. : Not available. : Not available.

(butyl acetate = 1)

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

Relative density : 1.44 to 1.64 (Water = 1)

Solubility : Easily soluble in the following materials: cold

water.

Partition coefficient: : Not available.

n-octanol/water

**Auto-ignition** 

: Not available.

temperature

Decomposition temperature

: Not available.

Odor threshold : Not available.

Viscosity : Kinematic (room temperature): 0 cm<sup>2</sup>/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

: Reactive or incompatible with the following materials: alkalis.

Do not mix with bleach or other chlorinated products - will cause chlorine gas.

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.

## **Section 11. Toxicological information**

: Skin contact, Eye contact, Ingestion Route of exposure

**Product AT USE DILUTION** 

Odorless 2.3 > 100°C

Liquid.

## **Section 11. Toxicological information**

**Product AS SOLD** 

**Symptoms** 

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

pain or irritation

watering redness

Skin contact: No specific data.Inhalation: No specific data.Ingestion: No specific data.

Acute toxicity

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

**Skin contact**: No known significant effects or critical hazards.

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

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

**Toxicity data** 

Product/ingredient name

citric acid LD50 Dermal Rat >2000 mg/kg LD50 Oral Rat 11700 mg/kg

**Chronic toxicity** 

Carcinogenicity : No known significant effects or critical hazards.
 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 nameResultSpeciesExposurecitric acidAcute LC50 >100 mg/lFish96 hours

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

### Section 13. Disposal considerations

**Product AS SOLD** 

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

Discard empty container in trash.

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

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

Product AT USE DILUTION

Adverse symptoms may include the following:

irritation watering redness

No specific data.

No specific data.

No specific data.

Causes eye irritation.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

Page: 5/7

### **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.

<u>DOT</u>

DOT Classification Not regulated.

IMO/IMDG

IMO/IMDG Classification Not regulated.

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

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

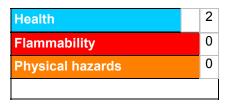
: No listed substance

California Prop. 65 : No listed substance

### **Section 16. Other information**

**Product AS SOLD** 

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

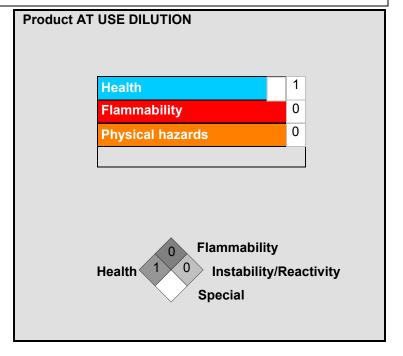


National Fire Protection Association (U.S.A.)



Date of issue : 23 Oct 2013
Prepared by : Regulatory Affairs
1-800-352-5326

**Notice to reader** 



### **Section 16. Other information**

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.

Page: 7/7