# Material Safety Data Sheet

**D-LIMER** 

### 1. Product and company identification

Product name

D-LIMER

In case of emergency

1-800-843-6174

Code

294FS

Validation date

7/14/2009

Material uses

Acid for Dissolving Hard Water Deposits

Print date

7/14/2009

Manufacturer

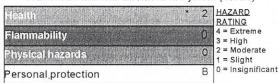
Essential Industries, Inc. P.O. Box 12

Responsible name

Regulatory Affairs Department

Merton, WI 53056-0012 Phone: 262-538-1122

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



A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

#### 2. Hazards identification

Emergency overview

CAUTION

MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN

DAMAGE, BASED ON ANIMAL DATA.

May be harmful if swallowed. Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that may cause target organ damage, based on animal data. Wash thoroughly

after handling

Potential acute health effects due to overexposure

Inhalation

May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion

Harmful if swallowed. May cause burns to mouth, throat and stomach.

Skin Eyes Severely corrosive to the skin. Causes severe burns. Severely corrosive to the eyes. Causes severe burns.

Potential chronic health effects due to overexposure

Carcinogenicity Mutagenicity

No known significant effects or critical hazards. No known significant effects or critical hazards.

Teratogenicity Developmental effects

No known significant effects or critical hazards. No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

See toxicological information (section 8)

## Composition/information on ingredients 3.

Name phosphoric acid sulphamidic acid CAS number 7664-38-2 5329-14-6

<u>%</u> 10 - 30 1 - 5

# First aid measures

Eye contact

Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. 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. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get

medical attention immediately.

Inhalation

Move exposed person to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical

attention immediately.

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get

medical attention immediately.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are

still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be

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

Notes to physician

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may

need to be kept under medical surveillance for 48 hours.

### 5 Fire-fighting measures

Flammability of the product

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

Extinguishing media

Suitable

Use an extinguishing agent suitable for the surrounding fire.

Special exposure hazards

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.

Hazardous thermal decomposition Decomposition products may include the following materials:

products

nitrogen oxides sulfur oxides phosphorus oxides

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. Control and preventive measures

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Ingredient	¥	Exposure limits	
phosphoric acid		ACGIH TLV (United States, 1/2008). TWA: 1 mg/m³ 8 hour(s). OSHA PEL 1989 (United States, 3/1989). TWA: 1 mg/m³ 8 hour(s). OSHA PEL (United States, 11/2006). TWA: 1 mg/m³ 8 hour(s).	

Personal protection

Respiratory

None required. However, use of adequate ventilation is good industrial practice.

Hands

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when

handling chemical products if a risk assessment indicates this is necessary.

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Eyes

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is

necessary to avoid exposure to liquid splashes, mists or dusts.

Methods for cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or

absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a

licensed waste disposal contractor.

Waste disposal

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

# 7. Physical and chemical properties

Physical state	Liquid	Boiling/condensation point	100°C (212°F)
Color	Blue	Melting/freezing point	0°C (32°F)
Odor	Bland	Vapor pressure	<4 kPa (<30 mm Hg)
VOC	0.0%	Vapor density	<1 [Air = 1]
рН	1 to 2	Weight per Gallon:	9.45 lbs./gal.
1% pH:	2.0 to 3.0	Specific Gravity:	1.13 gm/ml

LD50 Oral

### 8. Toxicological information

Acute toxicity

Product/ingredient name phosphoric acid

Result Species LD50 Oral Rat LD50 Oral Rat LC50 Inhalation Vapor Rat

Rat

Dose 1.25 gm/kg 1530 mg/kg >850 mg/m3

3160 mg/kg

Exposure

1 hours

sulphamidic acid Conclusion/Summary

Not available

Chronic toxicity

Conclusion/Summary

Not available

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Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1760	Corrosive Liquids, N.O.S. (Phosphoric acid)	8	III	din .	

PG\* : Packing group