# SAFETY DATA SHEET



#### CALIBRE WAREWASH DELIMER

# Section 1. Chemical product and company identification

Product name : CALIBRE WAREWASH DELIMER

Recommended use and

restrictions

: Delimer

Use only for the purpose on the product label.

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

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

8300 Capital Drive Greensboro NC 27409

1-800-529-5458 (Customer Service)

Code : 913153-12 Date of issue : 19 Feb 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 : CORROSIVE TO METALS - Category 1

SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 1

AQUATIC TOXICITY (ACUTE) - Category 3

**GHS label elements** 

Signal word : Danger

Symbol :

**Hazard statements**: May be corrosive to metals.

Causes severe skin burns and eye damage.

Harmful to aquatic life.

**Precautionary statements** 

**Prevention**: Wear protective gloves. Wear eye or face

protection. Wear protective clothing. Keep only in original container. Avoid release to the environment. Wash hands thoroughly after

handling.

**Response** : Absorb spillage to prevent material damage. IF

INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower. Wash contaminated clothing before reuse.

**Product AT USE DILUTION** 

SKIN CORROSION/IRRITATION - Category

1

SERIOUS EYE DAMAGE/ EYE IRRITATION

- Category 1

Danger



Causes severe skin burns and eye damage.

Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling

hands thoroughly after handling.

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

contaminated clothing before reuse.

# Section 2. Hazards identification

Immediately call a POISON CENTER or physician. 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 physician.

Storage : Store in corrosive resistant container with a

resistant inner liner.

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

Other hazards : None known.

Immediately call a POISON CENTER or physician. 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 physician.

No other specific measures identified.

See section 13 for waste disposal

information.

None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

**Product AS SOLD** 

Hazardous ingredients Concentration Range (%) CAS number

 uronium hydrogen sulphate
 20 - 50
 21351-39-3

 UREA
 1 - 5
 57-13-6

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

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

#### 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

immediately.

**Skin contact**: Take off immediately all contaminated clothing.

Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation**: Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention immediately.

**Ingestion**: Get medical attention immediately. Rinse mouth.

Do not induce vomiting.

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

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention immediately.

Get medical attention immediately. Rinse

mouth. Do not induce vomiting.

Protection of first-

aiders

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

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

clothing thoroughly with water before removing it, or wear gloves.

**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.

See toxicological information (section 11)

# Section 5. Fire-fighting measures

**Product AS SOLD** 

Suitable fire extinguishing

media

: Use water spray, fog or foam.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

Specific fire-fighting methods

: 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

mode.

### Section 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 Methods for cleaning up

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

: 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 tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

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

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.

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

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 tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

# Section 7. Handling and storage

#### **Product AS SOLD**

Handling

: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

**Storage** 

: Keep out of reach of children.

Store between the following temperatures: 0 and 50°C

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

Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

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

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Ingredient name	Exposure limits
None.	

#### **Product AS SOLD**

#### **Appropriate** engineering controls

: 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**

Eye protection

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

goggles.

Hand protection Skin protection

: Use chemical-resistant, impervious gloves.

: Use synthetic apron, other protective equipment

as necessary to prevent skin contact.

Respiratory protection

: A respirator is not needed under normal and

Hygiene measures

intended conditions of product use.

the goggles. Use chemical-resistant, impervious gloves. Use synthetic apron, other protective equipment as necessary to prevent skin contact.

Use only with adequate ventilation. If user

or mist, use process enclosures, local

exhaust ventilation or other engineering

operations generate dust, fumes, gas, vapor

controls to keep worker exposure to airborne

statutory limits. Provide suitable facilities for

Use chemical splash goggles. For continued

or severe exposure wear a face shield over

contaminants below any recommended or

quick drenching or flushing of the eyes and body in case of contact or splash hazard.

**Product AT USE DILUTION** 

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

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

# Section 9. Physical and chemical properties

#### **Product AS SOLD**

Physical state : Liquid.

Color : Green [Dark] Odor : Odorless

На : 0.1 to 0.2 (100%)

: > 100°C Flash point **Explosion limits** : Not available.

Flammability (solid,

gas)

**Melting point** : Not available. **Boiling point** : 100°C (212°F) **Evaporation rate** : Not available.

(butyl acetate = 1)

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

Relative density : 1.132 to 1.162 (Water = 1)

Solubility : Easily soluble in the following materials: cold

water and hot water.

Partition coefficient: : Not available.

n-octanol/water

: Not available.

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

Liquid. Blue [Light] Odorless 0.9 to 1.8 > 100°C

# Section 9. Physical and chemical properties

Auto-ignition temperature

: Not available.

Decomposition

: Not available.

temperature

Odor threshold : Not available. Viscosity : Not available.

# 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 : 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.

# Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

Product AS SOLD

**Symptoms** 

Eye contact : Adverse symptoms may include the following:

> watering redness

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Inhalation : Adverse symptoms may include the following:

coughing

Respiratory tract irritation

Ingestion : Adverse symptoms may include the following:

stomach pains

Acute toxicity

Eye contact : Causes serious eye damage.

Skin contact : Causes severe burns.

Inhalation : May give off gas, vapor or dust that is very

irritating or corrosive to the respiratory system.

Ingestion : May cause burns to mouth, throat and stomach. Product AT USE DILUTION

Adverse symptoms may include the following:

pain watering redness

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Adverse symptoms may include the following:

coughing

Respiratory tract irritation

Adverse symptoms may include the following:

stomach pains

Causes serious eye damage.

Causes severe burns.

May give off gas, vapor or dust that is very

irritating or corrosive to the respiratory

system.

May cause burns to mouth, throat and

stomach.

#### **Toxicity data**

Product/ingredient name	Result	Species	Dose
urea	LC50 Inhalation Dusts and mists	Rat	>2.71 mg/l
	LD50 Dermal	Rat	8200 mg/kg
	LD50 Oral	Rat	8471 ma/ka

**Chronic toxicity** 

: No known significant effects or critical hazards. Carcinogenicity

# Section 11. Toxicological information

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** : This material is harmful to aquatic life.

**Aquatic and terrestrial toxicity** 

Product/ingredient nameResultSpeciesExposureuronium hydrogen sulphateAcute LC50 80 ppm FreshFish -96 hours

water Gasterosteus

aculeatus

urea Acute LC50 127.9 mg/l Fish 96 hours

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

# Section 13. Disposal considerations

**Product AS SOLD** 

**Disposal methods**: 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 classification : Unused product is D002 (Corrosive)

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

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.

# **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 UN3265

**DOT Proper shipping name**Corrosive liquid, acidic, organic, n.o.s. (Urea Sulfate)

Class 8
Packing group II

**IMO/IMDG** 

IMO/IMDG Classification UN3265

IMO/IMDG Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (urea sulfate)

Class 8
Packing group II

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

Product AT USE DILUTION

Not intended for transport.

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# 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

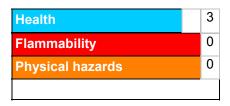
: No listed substance

<u>California Prop. 65</u> : No listed substance

# **Section 16. Other information**

#### **Product AS SOLD**

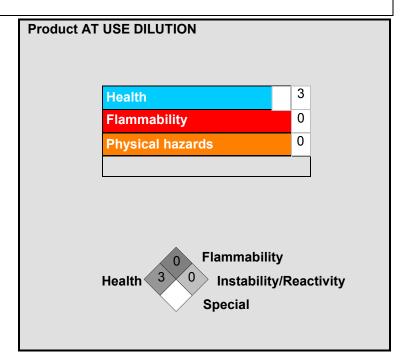
Hazardous Material Information System (U.S.A.)



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



# Date of issue : 19 Feb 2013 Prepared by : Regulatory Affairs 1-800-352-5326 Notice to reader



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