

# SAFETY DATA SHEET

# 1. Product and company identification

Product Name Hard Water Dish Machine Detergent - DH

UN/ID No. UN1814, Potassium Hydroxide Solution, Class 8, PGII

Recommended use of the chemical

Recommended Use Low Temp Dish Machine Detergent

Supplier:

Print date: June 21, 2018

Responsible name: HD Chem

707 W. 16<sup>th</sup> St., Long Beach, CA 90813

(888) 443-2436

In case of emergency: Call (888) 443-2436

**Product type:** Mixture

# 2. Hazards identification

Appearance: Red Liquid Physical State: Liquid Odor: No odor

Signal Word: Danger

**Pictograms:** 



Hazard Statement: Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

### <u>Precautionary Statements – Preventions</u>

Do not breathe mist or vapor. Wash thoroughly after handling Wash face, hands and any exposed skin thoroughly after handling. Avoid release to the environment.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area

Do not breath dust/fume/gas/mist/vapors/spray

Wear eye protection/face protection protective. Wear gloves/protective clothing/eye protection/face protection.

## <u>Precautionary Statements - Response</u>

## IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing immediately call a poison center/doctor. Wash contaminated clothing before reuse. If swallowed: Rinse mouth. Do NOT induce vomiting. Call poison center or doctor immediately. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comforatable for breathing.

**GENERAL ADVICE:** In case of accident or if you feel unwell, seek medical advice immediately. (show the label or SDS where possible.

# <u>Precautionary Statements – Storage</u>

Store locked up

Store in a well-ventilated place. Keep container tightly closed.

### Precautionary Statements - Disposal

Dispose of contents/container in accordance with local/federal/regional/national/international regulations.

#### **Other Hazards**

Harmful to aquatic life

# 3. Composition/information on ingredients

 Name
 CAS number
 %

 Potassium Hydroxide
 1310-58-3
 20%

# 4. First aid measures

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses, if present and easy to do so. Continue rinsing. Call a physician or poison

control center immediately.

Skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Get

medical attention immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Inhalation: Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If

not breathing, give artificial respiration. Get medical attention immediately.

**Ingestion:** Call physician or poison control center immediately. Rinse mouth. Do not induce

vomiting. If vomiting occurs, keep head low so that stomach content does not get

into the lungs.

**Note to physician** Most important symptoms/effects, acute and delayed.

Burning pain and severe corrosive skin damage. Nausea, vomiting, Diarrhea. Causes serious eye damage. Symptoms may include stinging, tearing redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.

Indication of immediate medical attention and special treatment

needed

Provide general supportive measure and treat symptomatically. Chemical burns. Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves. Show this safety data sheet to the doctor in

attendance.

### 5. Fire-fighting measures

**Suitable extinguishing media** Water fog, foam, Dry chemical powder, Carbon dioxide (CO2).

**Unsuitable Extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must

be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk

Specific methods Use standard firefighting procedures and consider the hazards of

other involved materials.

**General fire hazards** No unusual fire or explosion hazards noted.

# 6. Accidental release measures

**Personal precautions:** See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Prevent spillage from entering drains. Any release to the environment may be

subject to federal/national or local reporting requirements.

Methods for cleaning up Dike contain liquid area using protective clothing, absorb with sand or other

absorbent. Pick up and place in suitable, closed container for disposal. Dispose of

all waste and cleanup materials in accordance with regulations.

# 7. Handling and storage

**Handling:** See section 8 for recommendations on the use of personal protective equipment.

Use with adequate ventilation. Wash thoroughly after using. Keep container closed

when not in use.

**Storage** Keep container tightly closed and store in a cool, dry and well-ventilated place.

Store locked up. Keep away from incompatible materials (see section 10 for

incompatibilities).

# 8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits. Local

exhaust ventilation recommended. Eve wash stations. Showers and washing

facilities accessible to areas of use and handling.

### Individual-protection measures, such as personal protective equipment

**Eve/Face Protection** Wear chemical anti-splash safety glasses or goggles and a face shield.

**Skin and Body Protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended

by the glove supplier. Other: Wear appropriate chemical resistant clothing

Respiratory Protection Provide local exhaust, preferably mechanical. In case of insufficient ventilation,

wear suitable respiratory equipment. If exposure levels are excessive, use an

approved respirator

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General Hygiene considerations Keep away from food and drink. Do not eat, drink or smoke when using this

product. Wash contaminated clothing before reuse. Wash face, hands an any exposed skin thoroughly after handling. Routinely wash work clothing and

protective equipment to remove contaminants.

## 9. Physical and chemical properties

| Physical state                        | Liquid                                    |
|---------------------------------------|---|
| Flash Point                           | $>200^{0}$ F.                             |
| Color                                 | Red Liquid                                |
| pH                                    | 13  |
| Vapor Pressure (mm GHz)               | 66 MMHG @ 20 <sup>0</sup> c Approx. Water |
| Specific Gravity (H20=1)              | 1.21                                      |
| Vapor Density                         | 23  |
| Evaporation Rate (N-Butyl Acetate) =1 | N/E                                       |
| Solubility in Water                   | 100%                                      |
| Reactivity in Water                   | None                                      |
| VOC                                   | 8.97gr/ct                                 |
| Boiling point                         | $< 212^{0} \text{ F}$                     |

# 10. Stability reactivity

| Stability                | Stable  |  |
|--------------------------|---|--|
| Hazardous polymerization | Will not Occur  |  |
| Conditions to avoid      | Contact with strong mineral acids, metals amphoteric metals: Strong Acids |  |
| Materials to avoid       | Amphoteric Metals: Strong Acids   |  |
| Hazardous decomposition  | None  |  |

# 11. Toxicological information

### **Acute toxicity:**

Skin Not Available

Eyes Not Available

Respiratory Not Available

Ingestion LD50 Oral – rat 273 mg/kg

# Carcinogenicity:

No components of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

# Signs & Symptoms of Exposure:

Skin Causes severe skin burns.

Eyes Causes serious eye damage.

Respiratory May cause irritation to the respiratory system. Irritation, coughing, wheezing.

Prolonged inhalation may be harmful.

Ingestion Causes digestive tract burns. Harmful is swallowed.

## **Chronic Toxicity:**

May cause damage to the following organs: upper respiratory tract, skin, eyes.

# 12. Ecological information

### **Environmental effects:**

# 13. Disposal considerations

#### Waste disposal:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a license waste contactor. 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. Avoid dispersal of spilled material and runoff and contract with soil, waterways, drains and sewers.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSUSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

Note:

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

When shipped in containers of 32 oz. or less this material may be reclassified in accordance with DOT regulations 49CFR173.154 as: **Limited Quantity** 

| Regulatory         | UN number | Proper shipping name         | Classes | PG* | Additional information                   |
|--------------------|-----------|------------------------------|---------|-----|--|
| DOT Classification | UN1814    | Potassium Hydroxide Solution | 8       | II  | 32 oz Bottles,<br>ORM-D-Limited Quantity |

\*PG: Packing group

# 15. Regulatory information

### **International Inventories**

Not determined

### **California Proposition 65:**

This product does not contain any Proposition 65 chemicals.

#### 16. Other information

**HMIS Flammability** Reactivity **Personal Protection** Health

### Indicates information that has changed from previously issued version. Disclaimer

The information provided in the 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and in 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.

End of Safety Data Sheet