

## SAFETY DATA SHEET

### 1. Identification

Product identifier DISH PRESOAK

Other means of identification

SDS number 241

Product code HIL00012

Recommended use Utensil Presoaking Liquid Detergent.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HILLYARD INDUSTRIES

Address 302 North Fourth St.

St. Joseph, MO 64501

Contact person Regulatory Affairs

**Telephone number** (816) 233-1321 (Ext. 8285)

Fax (816) 383-8485

**E-mail** regulatoryaffairs@hillyard.com

Emergency telephone # (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

### 2. Hazard(s) identification

Physical hazards Not classified.

**Health hazards** Skin corrosion/irritation Category 1B

Serious eye damage/eye irritation Category 1

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Causes severe skin burns and eye damage.

**Precautionary statement** 

**Prevention** Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin

thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face

protection.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. 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. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician. Immediately call a

POISON CENTER or doctor/physician. Specific treatment (see Section 4 on the SDS).

Storage Store locked up.

**Disposal** Dispose of contents/container to an approved waste disposal plant.

Material name: DISH PRESOAK

SDS US

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Hazard(s) not otherwise classified (HNOC)

0% of the mixture consists of ingredient(s) of unknown toxicity

Supplemental information

None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Tetrapotassium Pyrophosphate		7320-34-5	5 - 10
POTASSIUM HYDROXIDE		1310-58-3	1 - 5
TSRN8810		Proprietary	1 - 5
Other components below reportab	le levels		86.73

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

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

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give

anything by mouth to a victim who is unconscious or is having convulsions.

Most important symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged contact may cause permanent damage to eyes. May be harmful if ingested. May cause irritation/burns to mouth and esophagus, nausea, vomiting and diarrhea.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures 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 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.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

Material name: DISH PRESOAK SDS US

### 7. Handling and storage

Precautions for safe handling Do not get in eyes, on skin, or clothing. Do not breathe vapors or mists. Do not ingest. Wash

thoroughly after handling. Wear protective clothing/equipment. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed and properly labeled. Containers that have been emptied will retain product residue and should be handled as if they were full. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored.

2 mg/m3

### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US.	<b>ACGIH</b>	Threshold	<b>Limit Values</b>
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Components	Туре	Value		
POTASSIUM HYDROXIDE (CAS 1310-58-3)	Ceiling	2 mg/m3		
US. NIOSH: Pocket Guide to Chemical Hazards				
Components	Туре	Value		

(CAS 1310-58-3)

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

POTASSIUM HYDROXIDE

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles) and a face shield. Eye/face protection

Ceiling

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

Avoid contact with the skin. Wear appropriate chemical resistant clothing. Other

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory Respiratory protection

> protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with

current local regulations.

Thermal hazards None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Clear, blue liquid. **Appearance** 

Physical state Liquid. **Form** Liquid. Blue Color Odor Odorless. **Odor threshold** Not available.

9.7 - 10.4 (1% solution)

Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

Material name: DISH PRESOAK SDS US Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Solubility(ies)

Solubility (water) Soluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density 10.33 lb/gal
Explosive properties Not explosive.
Oxidizing properties Not oxidizing.
Percent volatile 73.8 - 74.4
VOC Not available

### 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

1.16 - 1.18 at 77°F

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Extremes of temperature and direct sunlight.

**Incompatible materials** Strong oxidizing agents. Strong acids.

Hazardous decomposition Carbon

products

Carbon monoxide. Carbon dioxide (CO2). Oxides of phosphorus and potassium. Toxic fumes of

sodium oxide.

## 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contactCauses severe skin burns.Eye contactCauses serious eye damage.IngestionCauses digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

### Information on toxicological effects

Acute toxicity Not known.

Product	Species	Test Results	
DISH PRESOAK			
<u>Acute</u>			
Oral			
LD50	Rat	12130 mg/kg	
Components	Species	Test Results	

POTASSIUM HYDROXIDE (CAS 1310-58-3)

Acute Oral

LD50 Rat 273 mg/kg

Material name: DISH PRESOAK

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

### 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

4% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Product		Species	Test Results
DISH PRESOAK			
Aquatic			
Fish	LC50	Fish	3555.5557, 96 hours
Acute			
Fish	LC50	Fish	2666.6667, 96 hours estimated
Components		Species	Test Results

POTASSIUM HYDROXIDE (CAS 1310-58-3)

Aquatic Acute

Fish LC50

Western mosquitofish (Gambusia affinis) 80, 96 hours

Persistence and degradability

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

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

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Material name: DISH PRESOAK

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

### Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

DOT

UN number NA1760

UN proper shipping name

Compounds, Cleaning Liquid (POTASSIUM HYDROXIDE)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III

Special precautions for user Not available.

PACKAGES 1 GALLON AND SMALLER ARE SHIPPED LIMITED QUANTITY

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

DOT



General information This material is regulated under IATA and IMDG regulations. Contact manufacturer for shipping

instructions.

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

POTASSIUM HYDROXIDE (CAS 1310-58-3) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Y

Yes

chemical

Classified hazard Skin corrosion or irritation

**categories** Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Material name: DISH PRESOAK

# US state regulations California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No

EuropeEuropean List of Notified Chemical Substances (ELINCS)NoJapanInventory of Existing and New Chemical Substances (ENCS)NoPhilippinesPhilippine Inventory of Chemicals and Chemical SubstancesYes

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

No

## 16. Other information, including date of preparation or last revision

 Issue date
 11-04-2017

 Revision date
 12-09-2022

Version # 03
HMIS® ratings Heal

atings Health: 2 Flammability: 0 Physical hazard: 0

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particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

**Revision information** Hazard(s) identification: Response

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Physical and chemical properties: Appearance HazReg Data: International Inventories

HIL00012 Version #: 03 Revision date: 12-09-2022 Issue date: 11-04-2017

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).