# The Cleaning Resource

# SAFETY DATA SHEET

# 1. Identification

**Product identifier DISH PRESOAK 9** 

Other means of identification

SDS number 133 **Product code** HIL03550

Recommended use Warewashing presoak. **Recommended restrictions** For Labeled Use Only Manufacturer/Importer/Supplier/Distributor information

Manufacturer

HILLYARD INDUSTRIES Company name **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

(800) 424-9300 **Emergency telephone #** 

(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 2

Serious eye damage/eye irritation Category 2A

Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Causes skin irritation. Causes serious eye irritation. **Hazard statement** 

**Precautionary statement** 

Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and Prevention

exposed skin thoroughly after handling.

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

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Specific treatment (see Section 4 on the SDS). IF ON SKIN: Wash with plenty of soap and water. If skin

irritation occurs: Get medical advice/attention.

**Storage** Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

0.3% of the mixture consists of ingredient(s) of unknown toxicity

Supplemental information None.

Material name: DISH PRESOAK 9 SDS US

# 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		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 Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. 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. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

protect themselves.

Most important

symptoms/effects, acute and delaved

Causes drying and irritation to eyes. Repeated or prolonged contact may cause irritation and

drying to skin in sensitive individuals. May be harmful if swallowed.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. 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

# 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 touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

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.

# 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.

Material name: DISH PRESOAK 9 SDS US

# 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. ACGIH Threshold Limit Values** 

Components Value Type POTASSIUM HYDROXIDE Ceiling 2 mg/m3 (CAS 1310-58-3)

US. NIOSH: Pocket Guide to Chemical Hazards

Components Value Type POTASSIUM HYDROXIDE Ceiling 2 mg/m3 (CAS 1310-58-3)

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

Appropriate engineering controls

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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes. Wear eye/face protection.

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

None normally required. If unable to avoid prolonged or repeated contact with skin, wear Other

impervious clothing.

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

**Appearance** Clear, blue liquid.

**Physical state** Liquid. **Form** Liquid. Color Blue

Odor Lemon odor Not available. **Odor threshold** 

9.7 - 10.3 (1% Solution) Hq

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

range

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

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Not available. Vapor pressure Vapor density Not available. Relative density 1.16 - 1.18 at 77°F

Solubility(ies)

Soluble Solubility (water)

Material name: DISH PRESOAK 9 HIL03550 Version #: 02 Revision date: 12-09-2022 Issue date: 11-11-2017 Partition coefficient

(n-octanol/water)

Not available.

**Auto-ignition temperature Decomposition temperature**  Not available. Not available.

**Viscosity** 

Not available.

Other information

Density 10.04 lb/gal **Explosive properties** Not explosive. Oxidizing properties Not oxidizing. 74.7 - 75.3 % Percent volatile 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.

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 acids. Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides. Toxic fumes of sodium oxide. Oxides of phosphorus and potassium.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

toxicological characteristics

# Information on toxicological effects

Not known. Acute toxicity

Components Species **Test Results** 

POTASSIUM HYDROXIDE (CAS 1310-58-3)

**Acute** Oral

Rat 273 mg/kg LD50

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

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.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Material name: DISH PRESOAK 9 SDS US

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

## 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 -

single exposure

Not classified.

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** 4.3% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Product		Species	Test Results
DISH PRESOAK 9			
Aquatic			
Fish	LC50	Fish	3478.261, 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).

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. Do not re-use empty containers.

# 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.

ERG number 154

PACKAGES 1 GALLON AND SMALLER ARE SHIPPED LIMITED QUANTITY

Material name: DISH PRESOAK 9

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

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

Not established.

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)

Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard

categories

Skin corrosion or irritation

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

(SDWA)

Not regulated.

**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
Europe	European List of Notified Chemical Substances (ELINCS)	No

Material name: DISH PRESOAK 9

Country(s) or region Inventory name On inventory (yes/no)\*

Japan Inventory of Existing and New Chemical Substances (ENCS) No

Philippines Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

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

No

\*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).

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

**Issue date** 11-11-2017 **Revision date** 12-09-2022

Version # 02

**HMIS® ratings** Health: 2

Flammability: 0 Physical hazard: 0

**Disclaimer** No representations or warranties, either express or implied, of merchantability, fitness for a

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

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** Identification: Recommended restrictions

Hazard(s) identification: Response

Composition / Information on Ingredients: Ingredients

First-aid measures: Most important symptoms/effects, acute and delayed

Handling and storage: Precautions for safe handling

Handling and storage: Conditions for safe storage, including any incompatibilities

Physical & Chemical Properties: Multiple Properties Physical and chemical properties: Appearance Stability and reactivity: Conditions to avoid

Ecological information: Ecotoxicity

Disposal considerations: Contaminated packaging

HazReg Data: International Inventories

Material name: DISH PRESOAK 9