# The Cleaning Resource

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier ENZYME PRESOAK POWDER** 

Other means of identification

SDS number 135

HIL01503 **Product code** 

Recommended use Laundry Enzyme 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

regulatoryaffairs@hillyard.com E-mail

(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** Acute toxicity, oral Category 5

> Acute toxicity, inhalation Category 4 Serious eye damage/eye irritation Category 2A

**Environmental hazards** Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word

Harmful if inhaled. Causes serious eye irritation. May be harmful if swallowed. Harmful to aquatic **Hazard statement** 

life with long lasting effects. Harmful to aquatic life.

**Precautionary statement** 

Prevention Avoid breathing dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin

thoroughly after handling. Wear eye/face protection/protective gloves. Use only in well-ventilated

areas.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Response

Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER

or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Material name: ENZYME PRESOAK POWDER

SDS US HIL01503 Version #: 02 Revision date: 03-08-2018 Issue date: 12-14-2017

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

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

Hazard(s) not otherwise classified (HNOC)

11.6% of the mixture consists of ingredient(s) of unknown toxicity

Supplemental information

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Sodium Carbonate		497-19-8	23.4
Sodium Percarbonate		15630-89-4	20
Other components below reportable levels			56.6

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

#### 4. First-aid measures

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

attention, if needed.

Skin contact Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove

contaminated clothing and wash before reuse.

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove Eye contact

contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

develops and persists.

Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical Ingestion

attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or

unconscious person.

vision.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

**General information** Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. Show

this safety data sheet to the doctor in attendance.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

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

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Specific methods

equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes. Wash thoroughly after handling. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. 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. For personal protection, see section 8 of the SDS.

HIL01503 Version #: 02 Revision date: 03-08-2018 Issue date: 12-14-2017

# Methods and materials for containment and cleaning up

Minimize dust generation and accumulation. Wear appropriate protective equipment and clothing during clean-up. Prevent product from entering drains. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. 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. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground.

# Environmental precautions 7. Handling and storage

**Precautions for safe handling**Use personal protective equipment as required. Avoid contact with skin and eyes. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep away from heat. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Do not store near combustible materials. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

Occupational exposure limits Biological limit values

Appropriate engineering controls

This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit. No biological exposure limits noted for the ingredient(s).

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. Ensure adequate ventilation, especially in confined areas. Eye wash fountain and emergency showers are recommended.

# Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Not normally needed. For prolonged or repeated skin contact use suitable protective gloves.

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

impervious clothing.

**Respiratory protection**If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high

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** White powder with brown flecks.

Physical stateSolid.FormPowder.

**Color** White with brown flecks.

Odor Odorless.
Odor threshold Not available.

**pH** 10.5 - 11.1 (1% Solution)

Melting point/freezing point Not available

Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Material name: ENZYME PRESOAK POWDER

HIL01503 Version #: 02 Revision date: 03-08-2018 Issue date: 12-14-2017 3 / 7

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressureNot availableVapor densityNot availableRelative densityNot available.

Solubility(ies)

Solubility (water) Completely Soluble

Partition coefficient

Not available.

(n-octanol/water)

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

Other information

DensityNot availableExplosive propertiesNot explosive.Specific gravityNot 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 Hazardous polymerization does not occur.

reactions

Extremes of temperature and direct sunlight.

Incompatible materials Strong oxidizing agents. Strong acids. Aluminum.

Hazardous decomposition

Conditions to avoid

products

Thermal decomposition may yield carbon monoxide and carbon dioxide.

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Harmful if inhaled.

**Skin contact** Repeated or prolonged contact may cause irritation and drying to skin in sensitive individuals.

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Contact causes severe skin irritation and possible burns.

Eye contact Risk of serious damage to eyes. Avoid contact with eyes. Wash thoroughly after handling.

**Ingestion** May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

# Information on toxicological effects

Acute toxicity Harmful if inhaled. May be harmful if swallowed.

Components Species Test Results

Sodium Carbonate (CAS 497-19-8)

Acute Oral

LD50 Rat 4090 mg/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Risk of serious damage to eyes. Avoid contact with eyes. Wash thoroughly after handling.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

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

Material name: ENZYME PRESOAK POWDER

HIL01503 Version #: 02 Revision date: 03-08-2018 Issue date: 12-14-2017

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

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

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

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 -

**Aspiration hazard** 

Not classified.

repeated exposure

Not an aspiration hazard.

# 12. Ecological information

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

46.6% of the mixture consists of components of unknown hazards to the aquatic environment.

	Species	Test Results
OWDER		
EC50	Daphnia	669.2308 mg/l, 48 hours estimated
LC50	Fish	2756.4102 mg/l, 96 hours estimated
	Species	Test Results
NS 497-19-8)		
\S 497-19-8)		
S 497-19-8) EC50	Water flea (Ceriodaphnia dubia)	156.6 - 298.9 mg/l, 48 hours
	EC50 LC50	OWDER  EC50 Daphnia  LC50 Fish  Species

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

Persistence and degradability

Bioaccumulative potential No data available. Mobility in soil No data available.

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

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

## 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions** 

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

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

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

## DOT

Not regulated as dangerous goods.

Material name: ENZYME PRESOAK POWDER HIL01503 Version #: 02 Revision date: 03-08-2018 Issue date: 12-14-2017

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to

Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

# 15. Regulatory information

**US federal regulations** 

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

Standard, 29 CFR 1910.1200.

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

Not regulated.

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

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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 Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<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).

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

 Issue date
 12-14-2017

 Revision date
 03-08-2018

Version # 02

**HMIS® ratings** Health: 1

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 responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

**Revision information**This document has undergone significant changes and should be reviewed in its entirety.

Material name: ENZYME PRESOAK POWDER

HIL01503 Version #: 02 Revision date: 03-08-2018 Issue date: 12-14-2017 7 / 7