# The Cleaning Resource

# SAFETY DATA SHEET

### 1. Identification

**Product identifier ENZYME DETERGENT 58** 

Other means of identification

SDS number 139

HIL03035 **Product code** 

Recommended use Liquid Laundry Enzyme Detergent.

**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** Serious eye damage/eye irritation Category 2B

> Sensitization, respiratory Category 1

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

Label elements



Signal word Danger

**Hazard statement** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes eye irritation.

Precautionary statement

Prevention Avoid breathing dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Wash hands

thoroughly after handling.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position Response

comfortable for breathing. 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 experiencing respiratory symptoms: Call a POISON CENTER or

doctor/physician.

Storage Store away from incompatible materials.

**Disposal** Dispose of contents/container to an approved waste disposal plant. Hazard(s) not otherwise

classified (HNOC)

43.9% of the mixture consists of ingredient(s) of unknown toxicity.

Supplemental information None.

Material name: ENZYME DETERGENT 58 1/7 HIL03035 Version #: 02 Revision date: 10-29-2020 Issue date: 11-20-2017

## 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name                            | Common name and synonyms | CAS number  | %    |
|--|--------------------------|-------------|------|
| TSRN6604                                 |                          | Proprietary | 0-10 |
| Other components below reportable levels |                          |             | 95   |

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

#### 4. First-aid measures

Inhalation Remove victim from immediate source of exposure to fresh air. If breathing is difficult, administer

oxygen if available. If victim is not breathing, administer CPR. If individual experiences nausea,

headache, or dizziness, get immediate medical attention.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

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

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

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

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

unconscious person.

Most important

symptoms/effects, acute and

delayed

Ingestion

Irritation of eyes. May cause drowsiness or dizziness. Exposed individuals may experience eye

tearing, redness, and discomfort. Difficulty in breathing.

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

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

Hazardous combustion products: Carbon monoxide. Carbon dioxide (CO2).

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.

contained.

#### 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. Avoid breathing 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.

7. Handling and storage

Precautions for safe handling Avoid breathing mist or vapor. Avoid contact with eyes. Provide adequate ventilation. Wear

appropriate personal protective equipment. Observe good industrial hygiene practices.

## 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.

## 8. Exposure controls/personal protection

#### Occupational exposure limits

| U.S | OSHA |
|-----|------|
|-----|------|

| Components              | Туре    | Value         |                           |
|-------------------------|---------|---------------|---------------------------|
| TSRN6604                | STEL    | 0.00006 mg/m3 |                           |
| ACGIH<br>Components     | Туре    | Value         | Form                      |
| TSRN6604                | Ceiling | 0.00006 mg/m3 | Crystalline active enzyme |
| U.S NIOSH<br>Components | Туре    | Value         |                           |
| TSRN6604                | STEL    | 0.00006 mg/m3 |                           |

**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. General ventilation normally adequate. Provide eyewash station.

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

Avoid contact with eyes. Use safety eyewear with splash guards or side shields, chemical goggles, Eye/face protection

or face shields.

Skin protection

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

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

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, green liquid

Liquid. Physical state Liquid. **Form** Color Green Odor Odorless. Odor threshold Not available. 7.5 - 8.4Melting point/freezing point Not available. Initial boiling point and boiling > 212 °F (> 100 °C)

range

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

HIL03035 Version #: 02 Revision date: 10-29-2020 Issue date: 11-20-2017

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 1.036 g/cm3 at 77°F

Solubility(ies)

Solubility (water) Soluble

Partition coefficient Not available.

(n-octanol/water)

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

Other information

Density8.63 lb/galExplosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.Percent volatile56.5 - 58.7 %VOCNot 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**Contact with incompatible materials. Avoid high temperatures.

Incompatible materials Inorganic acids, inorganic bases, bleaching agents and oxidizers (chlorine, oxygen,

permanganates, perchlorates, percarbonates, peroxides, chromates, hypochlorites, nitric acid, and

sulfuric acid.

**Hazardous decomposition** 

products

Carbon oxides. Aldehydes. Organic acids. Ketones.

#### 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** Causes eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

Difficulty in breathing.

Information on toxicological effects

Acute toxicity Not known.

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

Serious eye damage/eye

irritation

Causes eye irritation.

#### Respiratory or skin sensitization

**Respiratory sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**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.

Material name: ENZYME DETERGENT 58

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 -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure **Aspiration hazard** 

Not classified.

Not an aspiration hazard.

12. Ecological information

**Ecotoxicity** 44% of the mixture consists of components of unknown hazards to the aquatic environment

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).

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.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

15. Regulatory information

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

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)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Material name: ENZYME DETERGENT 58 HIL03035 Version #: 02 Revision date: 10-29-2020 Issue date: 11-20-2017

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Yes

Classified hazard Serious eye damage or eye irritation categories Respiratory or skin sensitization

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.

Inventory name

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

| ocana y (o) or region | inventory name   | on inventory (yearner |
|-----------------------|--|-----------------------|
| Australia             | Australian Inventory of Chemical Substances (AICS)                     | No                    |
| Canada                | Domestic Substances List (DSL)   | No                    |
| Canada                | Non-Domestic Substances List (NDSL)                                    | No                    |
| China                 | Inventory of Existing Chemical Substances in China (IECSC)             | No                    |
| Europe                | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                    |
| Europe                | European List of Notified Chemical Substances (ELINCS)                 | No                    |

Japan Inventory of Existing and New Chemical Substances (ENCS) No
Korea Existing Chemicals List (ECL) No
Philippines Philippine Inventory of Chemicals and Chemical Substances No

(PICCS)

Taiwan 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
 11-20-2017

 Revision date
 10-29-2020

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.

Material name. ENZYME DETERGENT 30

On inventory (yes/no)\*

<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).

#### **Revision information**

Identification: Recommended restrictions

First-aid measures: Ingestion First-aid measures: Inhalation

Fire-fighting measures: Specific hazards arising from the chemical

Handling and storage: Conditions for safe storage, including any incompatibilities Physical & Chemical Properties: Multiple Properties
Stability and reactivity: Hazardous decomposition products
Stability and reactivity: Incompatible materials

Toxicological information: Eye contact

Ecological information: Ecotoxicity

Material name: ENZYME DETERGENT 58