HILLYARD The Cleaning Resource*

SAFETY DATA SHEET

1. Identification

Product identifier Take Down (Fresh Linen)

Other means of identification

SDS number 587N-031B Product code HIL00464

Recommended use Enzymatic Cleaner / Deodorizer

Recommended restrictions For Labeled Use Only

KEEP FROM FREEZING

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 hazardsSerious eye damage/eye irritationCategory 2AEnvironmental hazardsHazardous to the aquatic environment, acuteCategory 3

long-term hazard

hazard

Hazardous to the aquatic environment,

Category 3

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes serious eye irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting

effects. Avoid prolonged contact with skin. Avoid contact with open wounds or broken skin.

Precautionary statement

Prevention Wash thoroughly after handling. Avoid release to the environment. Wear eye protection/face

protection. Observe good industrial hygiene practices.

Response 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. Take off contaminated clothing and wash it before reuse. First Aid: Inhalation: Move to fresh air. Call a physician if symptoms develop or persist. Skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists. Ingestion: Rinse mouth. Get medical attention

if symptoms occur.

Storage Store away from incompatible materials.

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Disposal Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|------------------------|--------------------------|------------|----------|
| Lauramine Oxide | | 1643-20-5 | 1 - < 3 |
| Undeceth-7 | | 34398-01-1 | 1 - < 3 |
| Amylase Enzyme | | 9000-90-2 | < 0.1 |
| Other components below | reportable levels | | 90 - 100 |

4. First-aid measures

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

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. If eye irritation persists: Get medical advice/attention.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

symptoms/effects, acute and delayed

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

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

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
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

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. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Prevent product from entering drains.

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. For waste disposal, see section 13 of the SDS.

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Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all **Environmental precautions**

environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear

appropriate personal protective equipment. Avoid release to the environment. Observe good

industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

SDS).

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.

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

Appropriate engineering

controls

No special ventilation requirements.

Individual protection measures, such as personal protective equipment

Avoid contact with eyes. Where splashing of concentrate is a concern, use safety goggles or Eye/face protection

protective glasses with side shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Not normally needed.

Respiratory protection Not normally required with adequate ventilation.

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 Hazy to cloudy, slightly yellow liquid.

Liquid. Physical state **Form** Liquid.

Slightly yellow Color Fresh Linen Odor Odor **Odor threshold** Not available. 6.5 - 8.5Hq

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling

range

208 °F (97.78 °C)

> 200.0 °F (> 93.3 °C) Tag Closed Cup Flash point

< 1 Ethyl ether=1 **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure 17.62 mm Hg

Vapor density 0.6332 Air=1 0.999 at 77°F Relative density

Solubility(ies)

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

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

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Other information

Density8.32 lb/galExplosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.Percent volatile96.5 - 97.5 %

VOC 0 %

10. Stability and reactivity

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

No hazardous decomposition products are known.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

Hazardous decomposition

Conditions to avoid

reactions

No dangerous reaction known under conditions of normal use.

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

incompatible materials Strong oxidizing agents.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

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

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

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 Not known.

Product Species Test Results

Take Down (Fresh Linen)

Acute

Dermal

LD50 Rabbit 7.407e+006 mg/kg

Oral

LD50 Rat 781600 mg/kg

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

Serious eye damage/eye Causes serious eye irritation.

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.

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

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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 Harmful to aquatic life with long lasting effects.

| Product | | Species | Test Results |
|-----------------------|------|---------|-----------------------------|
| Take Down (Fresh Line | en) | | |
| Aquatic | | | |
| Crustacea | EC50 | Daphnia | 126.9136, 48 hours |
| Fish | LC50 | Fish | 231.6043, 96 hours |
| Acute | | | |
| Crustacea | EC50 | Daphnia | 35.1716, 48 hours estimated |
| Fish | LC50 | Fish | 81.3016, 96 hours estimated |
| Components | | Species | Test Results |

Undeceth-7 (CAS 34398-01-1)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) >= 1.6 - <= 2.5 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) >= 3.2 - <= 5 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Lauramine Oxide 4.67

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 instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

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. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law.

Local disposal regulationsDispose 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.

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 Not established. 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.

Toxic Substances Control Act (TSCA)

One or more components of the mixture are not on the TSCA 8(b) inventory

or are designated "inactive".

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)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard

Serious eye damage or eye irritation

categories

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)

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

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

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Amylase Enzyme (CAS 9000-90-2)

California Proposition 65

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. For more information go to www.P65Warnings.ca.gov.

International Inventories

On inventory (yes/no)* Country(s) or region Inventory name Canada Domestic Substances List (DSL) No

Canada Non-Domestic Substances List (NDSL) Nο United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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 03-17-2017 06-27-2022 **Revision date**

Version # 03

HMIS® ratings Health: 2

Flammability: 0 Physical hazard: 0

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Yes

Disclaimer

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Revision information

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