# SAFETY DATA SHEET



## 1. Identification

Product identifier	HS DETERGENT
Other means of identification	
SDS number	197DHD
Product code	HIL09970
Recommended use	Concentrated Laundry Detergent.
<b>Recommended restrictions</b>	For Labeled Use Only
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 2	
	Serious eye damage/eye irritation	Category 2A	
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 3	
OSHA defined hazards	Not classified.		
Label elements			
Signal word Hazard statement	Warning Causes skin irritation. Causes serious eye irrit effects.	ation. Harmful to aquatic life with long lasting	
Precautionary statement	enecis.		
Prevention	Wash face, hands and any exposed skin thoro gloves/protective clothing/eye protection/face		
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. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.		
Storage	Keep containers tightly closed and properly labeled.		
Disposal	Dispose of contents and container to an appro	oved waste disposal plant	
Hazard(s) not otherwise classified (HNOC)	19.9% of the mixture consists of ingredient(s)	of unknown toxicity.	

# 3. Composition/information on ingredients

Mixtures

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
POTASSIUM HYDROXIDE		1310-58-3	1
Other components below report			99
*The exact percentage (concentrat	tion) of composition has been withheld as a trade s	secret.	
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms de	evelop 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.		
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.		
Ingestion	Rinse mouth. Get medical attention if symptoms	occur.	
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat s Symptoms may be delayed.	symptomatically. Keep victim u	inder observation.
General information	Ensure that medical personnel are aware of the r protect themselves.	material(s) involved, and take	precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon	dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this w	vill spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be fo	ormed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full prote	ective clothing must be worn ir	a case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so w	vithout risk.	
Specific methods	Use standard firefighting procedures and conside	er the hazards of other involve	d materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people appropriate protective equipment and clothing du or spilled material unless wearing appropriate pro Local authorities should be advised if significant s protection, see section 8 of the SDS.	uring clean-up. Do not touch d otective clothing. Ensure adec	amaged containers uate ventilation.
Methods and materials for	Prevent product from entering drains.		
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. remove residual contamination.	g. cloth, fleece). Clean surfac	e thoroughly to
	Never return spills to original containers for re-us	e. For waste disposal, see se	ction 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform approprienvironmental releases. Prevent further leakage drains, water courses or onto the ground.	riate managerial or supervisor	y personnel of all

### 7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. 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

Keep container tightly closed. Keep only in the original container.

### 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.

Components	Values Type	Value	
POTASSIUM HYDROXIDE (CAS 1310-58-3)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to	o Chemical Hazards		
Components	Туре	Value	
POTASSIUM HYDROXIDE (CAS 1310-58-3)	TWA	2 mg/m3	
Biological limit values	No biological exposure limits noted f	or 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.		
ndividual protection measures	, such as personal protective equipn	ient	
Eye/face protection	Avoid contact with eyes. Wear safety	glasses with side shields (or goggles).	
Skin protection			
	For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be recommended by the glove supplier.		
Hand protection		act use suitable protective gloves. Suitable gloves can be	
Hand protection Other	recommended by the glove supplier.	ely, wear protective gloves. If contact is likely, wear protective	
·	recommended by the glove supplier. Not normally needed. If contact is lik clothing appropriate to use condition If exposure limits are exceeded or im protection should be worn. Positive-p	ely, wear protective gloves. If contact is likely, wear protective	
Other	recommended by the glove supplier. Not normally needed. If contact is lik clothing appropriate to use condition If exposure limits are exceeded or irr protection should be worn. Positive-p airborne contaminant concentrations	ely, wear protective gloves. If contact is likely, wear protective s. itation is experienced, NIOSH/MSHA approved respiratory pressure supplied air respirators may be required for high	

#### 9. Physical and chemical properties

Appearance	Clear, green liquid
Physical state	Liquid.
Form	Liquid.
Color	Green
Odor	Odorless.
Odor threshold	Not available.
рН	9.7 - 10.1
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
	N 1 - 1

Explosive limit - lower (%) Not available.

Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.1 at 77°F
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	9.16 lb/gal
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	65.7 - 67.6 %
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	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Acids.
Hazardous decomposition products	No hazardous decomposition products are known.

# 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.
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. Skin irritation. May cause redness and pain.

### Information on toxicological effects

Acute toxicity	Not known.		
Components	Species	Test Results	
POTASSIUM HYDROXIDE (CAS	1310-58-3)		
Acute			
Oral			
LD50	Rat	273 mg/kg	
* Estimates for product may	be based on additional component data n	ot shown.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitization	n		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause s	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 classifiat	Not classifiable as to carcinogenicity to humans.		
IARC Monographs. Overall	Evaluation of	Carcinogenicity		
Not listed. US. National Toxicology Pro Not listed.	ogram (NTP) R	Report on Carcinogens		
	ulated Substar	nces (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	d.		
Specific target organ toxicity - repeated exposure	Not classified	d.		
Aspiration hazard	Not an aspira	ation hazard.		
Chronic effects	Prolonged in	halation may be harmful.		
12. Ecological information	า			
Ecotoxicity	Harmful to a	quatic life with long lasting effects.		
Product		Species	Test Results	
HS DETERGENT				
Aquatic				
Fish	LC50	Fish	8000 mg/l, 96 hours estimated	
Components		Species	Test Results	
	CAS 1310-58-3	)		
<b>Aquatic</b> Fish	LC50	Western mosquitofish (Gambusia a	offinic) 80 mg/L 96 hours	
1 1311	2030	Western mosquitonsin (Gambusia a		
* Estimates for product may b	be based on add	ditional component data not shown.		
Persistence and degradability				
Bioaccumulative potential	No data avai			
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 consideratio	ns			
Disposal instructions	Collect 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.			
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			ue, follow label warnings even after container is approved waste handling site for recycling or	
14. Transport information				
DOT				
-	NA1760			
DOT	NA1760	cleaning (POTASSIUM HYDROXIDE	;)	

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Class

Subsidiary risk

Label(s)8Packing groupIIISpecial precautions for userRead safety instructions, SDS and emergency procedures before handling.ERG number154Transport in bulk according to<br/>Annex II of MARPOL 73/78 and<br/>the IBC CodeNot established.DOTImage: Comparison of the state of the



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

# 15. Regulatory information

US federal regulations

General information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Listed.

### 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)

SARA 304 Emergency release notification

Not regulated.

**Hazard categories** 

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated.

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

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	No	
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 is not known to contain any chemicals currently listed as carcinoger	· · · /
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
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

Country(s) or region	Inventory name	On inventory (yes/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
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	11-20-2017
Version #	01
HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0
Disclaimer	No representations or warranties, either express or in

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