NATIONAL PURITY, LLC.
6840 SHINGLE CREEK PKWY, STE 23
BROOKLYN CENTER, MN 55430
(612) 672-0022

SAFETY DATA SHEET

1. Product and Company Identification

Product Name	**HILLYARD EMULSO DEGREASER**
Product Number	**546**
Product Type	Mixture
Product Use	Liquid Alkaline Degreaser/Cleaner for hard surfaces
Manufacturer/Supplier	**HILLYARD** 26 Michigan Street SE Hutchinson MN 55350
Company Contact	320-587-3236
Emergency Telephone Number	800-424-9300

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910 OSHA HCS

Flammable liquid (Category 4) H227
Acute toxicity, Oral (Category 4) H302
Skin corrosion/irritation, (Category 1B) H314
Serious eye damage/irritation, (Category 1) H3318
Respiratory irritation (Category 3) H335
Acute aquatic toxicity, (Acute 2) H401
Chronic aquatic toxicity, (Chronic 3) H412

GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard Statements

H227	Combustible liquid.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage
H335	May cause respiratory irritation.
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements
Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames, and other sources of ignition. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breath mist, vapors, or spray.
P264	Wash hand and exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well ventilated area.
P273	Avoid release to the environment.

Response

P370+P378	In case of fire, use procedures appropriate to the main source of the fire.
P301+P310+P330	IF SWALLOWED, immediately call a POISON CENTER/doctor. DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything to an unconscious person.
P303+361+P353+P363	IF ON SKIN, Immediately take off all contaminated clothing. Rinse skin with water or shower if appropriate. Wash contaminated clothing before reuse.
P305+P351+P338	IF IN EYES, rinse cautiously for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor for medical assistance.
P304+P340+P312	IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if feeling unwell.

Storage/Disposal

P403+233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local, state and federal regulations.

.3. Composition/Information on Ingredients

The criteria for listing components in this section are: Ingredients that meet the criteria for carcinogenic, toxic to reproduction, or specific target organ toxicity and components otherwise considered hazardous according to OSHA which exceed the cut off limits for SDS specified by the criteria for mixtures are listed . Non hazardous components are not listed. This is not a composition disclosure. Exact percentages are considered proprietary and a trade secret.

Hazardous Components	CAS#	Classification	%
(Nonylphenoxy) polyethylene oxide	9016-45-9	H320, H313, H401	8-12%
Ethylene glycol monobutyl ether	111-76-2	H227, H316, H320	1-5%
Tetrasodium ethylenediamine tetraacetate	64-02-8	H315, H319, H335	1-5%
Potassium hydroxide	1310-58-3	H301, H314, H318, H402, H412	1-4%
Sodium xylene sulfonate	1300-72-7	H303. H313. H333	0-2%

4. First Aid Measures

Description of First Aid Procedures

General Advice	Consult a physician. Show this SDS to the doctor.
In Case of Eye Contact	Flush with cool running water for 15 minutes. Remove contact lenses if possible. Get immediate medical attention.
In Case of Skin Contact	Flush with cool water. If irritation occurs, get medical attention.
If Ingested	Rinse mouth with water. **Do not induce vomiting.** Obtain medical attention. Never give anything by mouth to an unconscious person.
If Inhaled	Move person to fresh air. If breathing difficulty persists, consult a physician.
Notes to Physician	Symptoms may be delayed.
General advice	Seek medical attention if feeling unwell. Show the SDS to the physician in attendance.

5. Fire-fighting Measures

Flammable properties	Combustible.
Extinguishing media	Use materials designed for source of fire. Treat as an alkaline material.
Protection of firefighters	Firefighters should wear protective clothing including self contained breathing apparatus. .
Hazardous combustion products	May include and not limited to oxides of carbon, and nitrogen, and sulfur.
Unusual Fire, Explosion hazards	Containers may melt or rupture from heat of fire. May form combustible mixtures with air when heated..

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6. Accidental Release Measures

Personal precautions	Keep unnecessary personal away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled containers unless wearing protective Clothing.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be mopped up and rinsed. Large spills may be absorbed with non reactive absorbent and placed in suitable , covered, labeled containers. Rinse area with water. Never return spill to original container for reuse. .
Environmental precautions	Keep out of waterways. Dispose of contents/containers in accordance with local, state, and federal regulations.

7. Handling and Storage

Precautions for Safe Handling	Use good industrial hygiene practices when handling this material. Wash contaminated clothing before reuse.
Conditions for Safe Storage	Keep container closed when not in use. Keep out of reach of children. Store in cool dry place, locked up.

8. Exposure Controls and Personal Protection

Exposure Limits

Ingredients	**CAS#**	**OSHA PEL**	**ACGIH TLV**
(Nonylphenoxy)polyethylene oxide	9016-45-9	Not available	Not available
Ethylene glycol monobutyl ether	111-76-2	Not available	Not available
Tetrasodium ethylenediamine tetraacetate	64-02-8	$2mg/m^3$	$2mg/m^3$ Ceiling
Potassium hydroxide	1310-58-3	Not available	$2mg/m^3$ TLV
Sodium xylene sulfonate	1300-72-7	Not available	Not available

Engineering controls	Local exhaust ventilation recommended.
Personal protective equipment	
Eye/Face protection	Wear safety glasses with side shields if splash conditions exist.
Hand protection	Wear safety gloves.
Skin and body	As required by employer code.
Respiratory protection	Use a NIOSH approved respirator when exposure guidelines are exceeded.
General hygiene considerations	Handle in accordance with good industrial hygiene practices. Do not eat or drink when using product. Wash hands well before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance/form	Clear liquid
Color	Pink
Odor	Solvent
Odor threshold	Not established
pH	11.25 (1% solution)
Melting/freezing point	Not established
Initial Boiling point	≈212º F. (100º C.)
Flash point	162º F. (72º C.)
Evaporation rate	Not established
Flammability	Combustible
Upper/lower flammability or Explosive limits	Not established
Vapor pressure	Not established

Vapor density	Not established
Specific gravity/density	1.04
Vapor density	Not established
Solubility in water	Complete
VOC	< 1.0%
% Volatile	Approx. 83%
Other Safety Information	

10. Stability and Reactivity

Reactivity	
Chemical Stability	Stable under normal storage conditions.
Hazardous reactions	None known.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong acids, alkalais, strong oxidizing agents.
Hazardous decomposition products	May include but not limited to oxides of carbon, and nitrogen.
Hazardous polymerization	Will not occur.

11. Toxicological Information

Ingredients	**LC50**
(Nonylphenoxy) polyethylene oxide	Not available
Ethylene glycol monobutyl ether	Not available
Tetrasodium ethylenediamine tetraacetate	Not available
Potassium hydroxide	Not available
Sodium xylene sulfonate	Not available
Ingredients	**LD50**
(Nonylphenoxy) polyethylene oxide	3310 mg/kg (Oral-rat), >2000mg/kg (dermal-rabbit)
Ethylene glycol monobutyl ether	Not available
Tetrasodium ethylenediamine tetraacetate	3,030 mg/kg (Oral-rat), >5,000 mg/kg (Dermal-rabbit)
Potassium hydroxide	Not available
Sodium xylene sulfonate	10,000 mg/kg (Oral-rat)

Effects of acute exposure	
Eye	Will cause eye damage.
Skin	Will cause severe skin burns.
Ingestion	Harmful if swallowed. May cause corrosive damage to mouth, throat and stomach.
Inhalation	May cause irritation of nose and throat.
Sensitization	Non hazardous**.**
Chronic effects of short and long Term exposure	Prolonged exposure to skin may cause drying, defatting and irritation.
Carcinogenicity	Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.

12. Ecological Information

Eco-toxicity	Ecological effects for this product have not been analyzed. However, if spilled this product and any contaminated soil may be toxic to aquatic life and have long lasting effects.
Environmental effects	No data Available.
Aquatic toxicity	
(Nonylphenoxy) polyethylene oxide	LC 50 Fish: 10mg/L - 96 hours
Tetrasodium ethylenediamine tetraacetate	LC 50 Fathead minnow: > 100mg/l -96 hours

Persistence and Degradability	No data available.
Bioaccumulation/accumulation	No data available.
Partition coefficient	No data available.
Mobility in environmental media	No data available.
Chemical fate information	No data available.
Other adverse effects	No data available.

13. Disposal Considerations

Waste codes	Not Available
Disposal instructions	Dispose in accordance with local, state, and federal regulations.
Wastes from residues/unused product	Containerize. Rinse area with water. Keep out of storm sewer/waterways.
Contaminated packaging	Dispose in accordance with all applicable regulations.

14. Transport Information

Basic shipping requirements:	
Proper shipping name	Corrosive liquid, n.o.s. (Contains potassium hydroxide,), 8, UN1760, PG II
Hazard class	Corrosive liquid, 8
UN number	UN1760
Packing group	PG II
Special provisions	Not applicable

15. Regulatory Information

U.S federal regulations	This product has been classified in accordance with the Occupational Safety and Health Administration hazard criteria and the SDS contains all of the information required by OSHA. HCS 2012
TSCA	All ingredients are listed on the Toxic Substances Control Act or are exempt from listing.
Cercla SuperFund 40CFR117.302	This product contains a material with a Reportable Quantity (RQ)
Potassium hydroxide	RQ= 25,000 Lbs.
Ethylene glycol monobutyl ether	RQ= 5,000 Lbs.
SARA Title III Section 311&312	Immediate (Acute) Health Hazard
SARA Title III Section 313	Product does contain substances on the list of Toxic Chemicals per 40CFR372: Ethylene glycol monobutyl ether is subject to the reporting requirements of Section 313
States Right to Know	Reportable chemicals: Potassium hydroxide, Sodium hydroxide < 0.03%, Formaldehyde < 0.002%.
California Proposition 65	This product may contain trace amounts of chemicals known to the state of California to cause cancer: Formaldehyde (CAS# 50-00-0) < 0.002%.

Inventory Status

Countries	**Inventory Name**	**On Inventory (Yes/No)***
U.S.	CIL	Yes
Canada	DSL	Yes

- A "Yes" indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed.

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16. Other Information

HMIS RATING

HMIS Legend

Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	**3**
Flammability	1
Reactivity	**0**
Personal Protection	**B**

Disclaimer

To the best of our knowledge, the information included herein is accurate**.** However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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