

# SAFETY DATA SHEET

Issuing Date 07-Aug-2013

Revision Date 07-Aug-2013

Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name

HD BUILT DETERGENT

Other means of identification

Product Code(s)

LLCHD

Synonyms

ENVY

Recommended use of the chemical and restrictions on use

Recommended Use

Institutional laundry detergent

Uses advised against

No information available

Supplier's details

Supplier Address

Envirochem, Inc  
425 Whitehead Ave  
South River, NJ  
08882  
TEL: 732-238-6700

Emergency telephone number

Emergency Telephone Number

CHEM-TEL, INC.  
24 Hour Emergency Contact 1-800-255-3924

## 2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

## Emergency Overview

Signal Word

None

Appearance

Blue

The product contains no substances which at their given concentration are considered to be hazardous to health

Odor

No information available

Precautionary Statements

Prevention

• None



General Advice

• None

Storage

• None

Disposal

• None

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

ENVY

| Chemical Name                | CAS-No    | Weight % | Trade secret |
|------------------------------|-----------|----------|--------------|
| Tetrapotassium pyrophosphate | 7320-34-5 | 5-15     | *            |
| Pentasodium triphosphate     | 7758-29-4 | 1-5      | *            |
| Potassium hydroxide          | 1310-58-3 | 0.1-1    | *            |

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

Description of necessary first-aid measures

Eye Contact

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.

Skin Contact

Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion

Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, seek medical attention.

Most important symptoms/effects, acute and delayed

Most important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None

Specific Hazards Arising from the Chemical

No information available



**Explosion Data**Sensitivity to Mechanical Impact  
Sensitivity to Static DischargeNone  
None**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Stop leak if you can do it without risk. If spilled, take caution, as material can cause surfaces to become very slippery.

**Environmental Precautions****Environmental Precautions**

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

**Methods and materials for containment and cleaning up****Methods for Containment**

Stop leak if you can do it without risk

**Methods for Cleaning Up**

Contain spill, dilute with water and neutralize as required. Wash away small spills with plenty of water. Large spillage: Soak up with inert absorbent material.

**7. HANDLING AND STORAGE****Precautions for safe handling****Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities****Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Keep from freezing. Keep container closed when not in use.

**Incompatible Products**

Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

|                      |                                  |                  |                              |                 |                                        |                   |                              |
|----------------------|----------------------------------|------------------|------------------------------|-----------------|----------------------------------------|-------------------|------------------------------|
| <b>Chemical Name</b> | Potassium hydroxide<br>1310-58-3 | <b>ACGIH TLV</b> | Ceiling: 2 mg/m <sup>3</sup> | <b>OSHA PEL</b> | (vacated) Ceiling: 2 mg/m <sup>3</sup> | <b>NIOSH IDLH</b> | Ceiling: 2 mg/m <sup>3</sup> |
|----------------------|----------------------------------|------------------|------------------------------|-----------------|----------------------------------------|-------------------|------------------------------|

**Appropriate engineering controls****Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems



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

**Eye/Face Protection**  
Safety glasses with side-shields.

**Skin and Body Protection**  
Rubber gloves. Neoprene gloves.

**Respiratory Protection**  
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures**  
Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

**Physical State** Liquid

**Odor** No information available

**Appearance** Blue

**Odor Threshold** No information available

**Remarks/ - Method**

| Property                               | Values              | Remarks/ - Method |
|----------------------------------------|---------------------|-------------------|
| pH                                     | 8.5                 | None known        |
| Melting Point/Range                    | No data available   | None known        |
| Boiling Point/Boiling Range            | > 100 °C / > 212 °F | None known        |
| Flash Point                            | No data available   | None known        |
| Evaporation rate                       | No data available   | None known        |
| Flammability (solid, gas)              | No data available   | None known        |
| Flammability Limits in Air             | No data available   | None known        |
| Upper flammability limit               | No data available   | None known        |
| Lower flammability limit               | No data available   | None known        |
| Vapor Pressure                         | No data available   | None known        |
| Vapor Density                          | No data available   | None known        |
| Relative Density                       | No data available   | None known        |
| Specific Gravity                       | 1.09                | None known        |
| Water Solubility                       | 100%                | None known        |
| Solubility in other solvents           | No data available   | None known        |
| Partition coefficient: n-octanol/water | No data available   | None known        |
| Autignition Temperature                | No data available   | None known        |
| Decomposition Temperature              | No data available   | None known        |
| Viscosity                              | 900 cps             | None known        |

**Flammable Properties**

**Explosive Properties** No data available

**Oxidizing Properties** No data available

**Other information**

**VOC Content (%)** No data available

**10. STABILITY AND REACTIVITY****Reactivity**

**Chemical stability** No data available.

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**



Incompatible products.

**Incompatible materials**

Strong oxidizing agents.

**Hazardous decomposition products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**  
Inhalation  
Eye Contact  
Skin Contact  
Ingestion

No known hazard by inhalation.  
 Contact with eyes may cause irritation.  
 Prolonged skin contact may defat the skin and produce dermatitis.  
 May be harmful if swallowed.

| Chemical Name                      | LD50 Oral            | LD50 Dermal             | LC50 Inhalation |
|------------------------------------|----------------------|-------------------------|-----------------|
| Water                              | 90 mL/kg ( Rat )     | -                       | -               |
| Ethylene oxide-Nonylphenol polymer | = 1310 mg/kg ( Rat ) | = 2 mL/kg ( Rabbit )    | -               |
| Tetrapotassium pyrophosphate       | -                    | > 4640 mg/kg ( Rabbit ) | -               |
| Pentassium triphosphate            | = 3100 mg/kg ( Rat ) | > 7940 mg/kg ( Rabbit ) | -               |
| Potassium hydroxide                | = 214 mg/kg ( Rat )  | -                       | -               |

**Symptoms related to the physical, chemical and toxicological characteristics****Symptoms**  
No information available.**Delayed and immediate effects and also chronic effects from short and long term exposure****Sensitization**  
Mutagenic Effects  
Carcinogenicity

No information available.  
 No information available.  
 Contains no ingredient listed as a carcinogen.

**Reproductive Toxicity**  
STOT - single exposure  
STOT - repeated exposure  
Aspiration Hazard

No information available.  
 No information available.  
 No information available.  
 No information available.

**Numerical measures of toxicity - Product**

*The following values are calculated based on chapter 3.1 of the GHS document:*  
 LD50 Oral 5928 mg/kg; Acute toxicity estimate  
 LD50 Dermal 8394 mg/kg; Acute toxicity estimate

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical Name                          | Toxicity to Algae | Toxicity to Fish                             | Toxicity to Microorganisms | Daphnia Magna (Water Flea)         |
|----------------------------------------|-------------------|----------------------------------------------|----------------------------|------------------------------------|
| Tetrapotassium pyrophosphate 7320-34-5 |                   | LC50 96 h: > 100 mg/L (Onchorhynchus mykiss) |                            | EC50 48 h: > 100 mg/L (water flea) |
| Pentassium triphosphate 7758-29-4      |                   | LC50 48 h: = 1650 mg/L (Leuciscus idus)      |                            |                                    |



|                                  |                                                    |  |
|----------------------------------|----------------------------------------------------|--|
| Potassium hydroxide<br>1310-58-3 | LC50 96 h : = 80 mg/L static<br>(Gambusia affinis) |  |
|----------------------------------|----------------------------------------------------|--|

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

|                     |         |
|---------------------|---------|
| Chemical Name       | Log Pow |
| Potassium hydroxide | 0.83    |

**Other Adverse Effects**

No information available.

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Methods**

Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging**

Do not re-use empty containers.

|                     |                            |
|---------------------|----------------------------|
| Chemical Name       | California Hazardous Waste |
| Potassium hydroxide | Toxic<br>Corrosive         |

**14. TRANSPORT INFORMATION****DOT**

Not regulated

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard  
Chronic Health Hazard  
Fire Hazard  
Sudden Release of Pressure Hazard  
Reactive Hazard

No  
No  
No  
No  
No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

|                          |                             |                        |                           |                            |
|--------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Chemical Name            | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
| Pentasodium triphosphate |                             |                        |                           | X                          |



|                     |         |  |  |   |
|---------------------|---------|--|--|---|
| Potassium hydroxide | 1000 lb |  |  | X |
|---------------------|---------|--|--|---|

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name             | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ                                         |
|---------------------------|--------------------------|------------------------------------|--------------------------------------------|
| Pentastodium triphosphate | 5000 lb                  |                                    | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Potassium hydroxide       | 1000 lb                  |                                    | RQ 1000 lb final RQ<br>RQ 454 kg final RQ  |

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

"X" designates that the ingredients are listed on the state right to know list.

| Chemical Name             | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|---------------------------|------------|---------------|--------------|----------|--------------|
| Pentastodium triphosphate |            | X             | X            |          |              |
| Potassium hydroxide       | X          | X             | X            |          | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

**NFPA** Health Hazard 1 Flammability 0 Instability 1 Physical and Chemical Hazards -

**HMS** Health Hazard 1 Flammability 0 Physical Hazard 1 Personal Protection X

Prepared By

Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501  
07-Aug-2013  
07-Aug-2013  
Initial Release.

Issuing Date  
Revision Date  
Revision Note

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

