

# SAFETY DATA SHEET

Issuing Date 18-Apr-2013

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Revision Number 0

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

### GHS product identifier

Product Name ENVIRO 2000 HD

### Other means of identification

Product Code(s) E2000 HD

UN-Number UN1759

Synonyms E2000HD

### Recommended use of the chemical and restrictions on use

Recommended Use Institutional dish machine 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 considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

|                                   |                           |
|-----------------------------------|---------------------------|
| Skin Corrosion/Irritation         | Category 1 Subcategory 1A |
| Serious Eye Damage/Eye Irritation | Category 1                |

### GHS Label elements, including precautionary statements

#### Emergency Overview

**Signal Word** Danger  
**Hazard Statements**  
• Causes severe skin burns and eye damage

**Appearance** Tan**Physical State** Solid.**Odor** No information available**Precautionary Statements****Prevention**

- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

**General Advice**

- Immediately call a POISON CENTER or doctor/physician

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician.

**Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse

**Inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Ingestion**

- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Storage**

- Store locked up

**Disposal**

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

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Harmful to aquatic life with long lasting effects

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Synonyms**

E2000 HD

| Chemical Name    | CAS-No    | Weight % | Trade secret |
|------------------|-----------|----------|--------------|
| Sodium hydroxide | 1310-73-2 | 47-48    | *            |
| Sodium carbonate | 497-19-8  | < 5      | *            |

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

**4. FIRST AID MEASURES**

**Description of necessary first-aid measures**

|                     |                                                                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.                 |
| <b>Skin Contact</b> | Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Immediate medical attention is required. |
| <b>Inhalation</b>   | Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.                                                 |
| <b>Ingestion</b>    | Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediate medical attention is required.    |

**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**

|                                         |       |
|-----------------------------------------|-------|
| <b>Sensitivity to Mechanical Impact</b> | None. |
| <b>Sensitivity to Static Discharge</b>  | 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.

**Environmental Precautions**

**Environmental Precautions** Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information

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

**Methods for Containment** Stop leak if you can do it without risk

**Methods for Cleaning Up** If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dilute with water and neutralize as required. Wash away small spills with plenty of water.

**7. HANDLING AND STORAGE**

**Precautions for safe handling****Handling**

Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory 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.

**Incompatible Products**

Acids. Strong oxidizing agents.

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

| Chemical Name                 | ACGIH TLV                    | OSHA PEL                                                           | NIOSH IDLH                                                 |
|-------------------------------|------------------------------|--------------------------------------------------------------------|------------------------------------------------------------|
| Sodium hydroxide<br>1310-73-2 | Ceiling: 2 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup><br>(vacated) Ceiling: 2 mg/m <sup>3</sup> | IDLH: 10 mg/m <sup>3</sup><br>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**

Tightly fitting safety goggles.

**Skin and Body Protection**

Rubber boots. Apron. Rubber gloves. Latex gloves

**Respiratory Protection**

No protective equipment is needed under normal use conditions.

**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**

Solid

**Odor**

No information available

**Appearance**

Tan

**Odor Threshold**

No information available

**Property****Values****Remarks/ - Method**

pH

No data available

None known

Melting Point/Range

No data available

None known

Boiling Point/Boiling Range

No data available

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

upper flammability limit

No data available

lower flammability limit

No data available

Vapor Pressure

No data available

None known

Vapor Density

No data available

None known

Relative Density

No data available

None known

Specific Gravity

No data available.

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

|                                  |                   |            |
|----------------------------------|-------------------|------------|
| <b>Autoignition Temperature</b>  | No data available | None known |
| <b>Decomposition Temperature</b> | No data available | None known |
| <b>Viscosity</b>                 | No data available | None known |

**Flammable Properties** Not flammable

**Explosive Properties** No data available

**Oxidizing Properties** No data available

#### Other information

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

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to avoid

Excessive heat.

### Incompatible materials

Acids. Strong oxidizing agents.

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

|                     |                                            |
|---------------------|--------------------------------------------|
| <b>Inhalation</b>   | May cause irritation of respiratory tract. |
| <b>Eye Contact</b>  | Causes serious eye damage.                 |
| <b>Skin Contact</b> | Causes severe skin burns.                  |
| <b>Ingestion</b>    | May be harmful if swallowed.               |

| Chemical Name    | LD50 Oral            | LD50 Dermal           | LC50 Inhalation |
|------------------|----------------------|-----------------------|-----------------|
| Sodium hydroxide | -                    | 1350 mg/kg ( Rabbit ) | -               |
| Sodium carbonate | = 4090 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** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** Contains no ingredient listed as a carcinogen.

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organ Effects** Eyes. Skin. Respiratory system.  
**Aspiration Hazard** No information available.

#### **Numerical measures of toxicity - Product**

*The following values are calculated based on chapter 3.1 of the GHS document:*

**LD50 Oral** 14326 mg/kg; Acute toxicity estimate  
**LD50 Dermal** 2842 mg/kg; Acute toxicity estimate

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

| Chemical Name            | Toxicity to Algae                  | Toxicity to Fish                                                                                              | Toxicity to Microorganisms | Daphnia Magna (Water Flea)            |
|--------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| Sodium hydroxide         |                                    | LC50 96 h: = 45.4 mg/L static (Oncorhynchus mykiss)                                                           |                            |                                       |
| Pentasodium triphosphate |                                    | LC50 48 h: = 1650 mg/L (Leuciscus idus)                                                                       |                            |                                       |
| Sodium carbonate         | EC50 120 h: = 242 mg/L (Nitzschia) | LC50 96 h: 310 - 1220 mg/L static (Pimephales promelas)<br>LC50 96 h: = 300 mg/L static (Lepomis macrochirus) |                            | EC50 48 h: = 265 mg/L (Daphnia magna) |

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

### **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 |
|------------------|----------------------------|
| Sodium hydroxide | Toxic<br>Corrosive         |
| Sodium carbonate | Corrosive                  |

## **14. TRANSPORT INFORMATION**

### **DOT**

**UN-Number** UN1759  
**Proper shipping name** Corrosive solids, n.o.s.  
**Hazard Class** 8  
**Packing Group** II  
**Reportable Quantity (RQ)** Sodium hydroxide: RQ kg= 955.79, Pentasodium triphosphate: RQ kg= 11713.11  
**Description** UN1759, Corrosive solids, n.o.s. (Sodium hydroxide), 8, II, RQ  
**Emergency Response Guide Number** 154

**TDG**

|                      |                                                           |
|----------------------|-----------------------------------------------------------|
| UN-Number            | UN1759                                                    |
| Proper Shipping Name | Corrosive solid, n.o.s.                                   |
| Hazard Class         | 8                                                         |
| Packing Group        | II                                                        |
| Description          | UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II |

|                      |                                                           |
|----------------------|-----------------------------------------------------------|
| UN-Number            | UN1759                                                    |
| Proper Shipping Name | Corrosive solid, n.o.s.                                   |
| Hazard Class         | 8                                                         |
| Packing Group        | II                                                        |
| Description          | UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II |

**ICAO**

|                      |                                        |
|----------------------|----------------------------------------|
| UN-Number            | UN1759                                 |
| Proper shipping name | Corrosive solid, n.o.s.                |
| Hazard Class         | 8                                      |
| Packing Group        | II                                     |
| Description          | UN1759, Corrosive solid, n.o.s., 8, II |

**IATA**

|                      |                                                           |
|----------------------|-----------------------------------------------------------|
| UN-Number            | UN1759                                                    |
| Proper Shipping Name | Corrosive solid, n.o.s.                                   |
| Hazard Class         | 8                                                         |
| Packing Group        | II                                                        |
| ERG Code             | 8L                                                        |
| Description          | UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II |

**IMDG/IMO**

|                      |                                                           |
|----------------------|-----------------------------------------------------------|
| UN-Number            | UN1759                                                    |
| Proper Shipping Name | Corrosive solid, n.o.s.                                   |
| Hazard Class         | 8                                                         |
| Packing Group        | II                                                        |
| EmS No.              | F-A, S-B                                                  |
| Description          | UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II |

**RID**

|                      |                                                           |
|----------------------|-----------------------------------------------------------|
| UN-Number            | UN1759                                                    |
| Proper Shipping Name | Corrosive solid, n.o.s.                                   |
| Hazard Class         | 8                                                         |
| Packing Group        | II                                                        |
| Classification Code  | C10                                                       |
| Description          | UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II |

**ADR**

|                         |                                                                |
|-------------------------|----------------------------------------------------------------|
| UN-Number               | UN1759                                                         |
| Proper Shipping Name    | Corrosive solid, n.o.s.                                        |
| Hazard Class            | 8                                                              |
| Packing Group           | II                                                             |
| Classification Code     | C10                                                            |
| Tunnel Restriction Code | (E)                                                            |
| Description             | UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II, (E) |
| ADR/RID-Labels          | 8                                                              |

**ADN**

|                      |                         |
|----------------------|-------------------------|
| Proper Shipping Name | Corrosive solid, n.o.s. |
| Hazard Class         | 8                       |
| Packing Group        | II                      |
| Classification Code  | C10                     |

|                           |                                                           |
|---------------------------|-----------------------------------------------------------|
| <b>Special Provisions</b> | 274                                                       |
| <b>Description</b>        | UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II |
| <b>Limited Quantity</b>   | 1 kg                                                      |

## 15. REGULATORY INFORMATION

### International Inventories

|             |          |
|-------------|----------|
| <b>TSCA</b> | Complies |
| <b>DSL</b>  | Complies |

### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - 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

|                                          |     |
|------------------------------------------|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden Release of Pressure Hazard</b> | No  |
| <b>Reactive Hazard</b>                   | 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 |
|------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium 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                                        |
|------------------|--------------------------|------------------------------------|-------------------------------------------|
| Sodium 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 |
|--------------------------|------------|---------------|--------------|----------|--------------|
| Sodium hydroxide         | X          | X             | X            |          | X            |
| Pentasodium triphosphate |            | X             | X            |          |              |

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

## 16. OTHER INFORMATION

|             |                 |                |                   |                                 |
|-------------|-----------------|----------------|-------------------|---------------------------------|
| <b>NFPA</b> | Health Hazard 3 | Flammability 0 | Instability 1     | Physical and Chemical Hazards - |
| <b>HMIS</b> | Health Hazard 3 | Flammability 0 | Physical Hazard 1 | Personal Protection X           |



|               |                                                                                        |
|---------------|----------------------------------------------------------------------------------------|
| Prepared By   | Product Stewardship<br>23 British American Blvd.<br>Latham, NY 12110<br>1-800-572-6501 |
| Issuing Date  | 18-Apr-2013                                                                            |
| Revision Date | 18-Apr-2013                                                                            |
| Revision Note | Initial Release.                                                                       |

**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**