SAFETY DATA SHEET

Issuing Date 18-Apr-2013 Revision Date 18-Apr-2013 Revision Number 0

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

GHS product identifier

Product Name ENVIRO 2000 Plus

Other means of identification

Product Code(s) E2000

UN-Number UN1759

Synonyms E2000

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 CHEM-TEL, INC.

Number 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

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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

Eves

- 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

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		MEASL	IRES
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Description of necessary first-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Skin Contact Wash off immediately with soap and plenty of water. Remove and wash contaminated

clothing before re-use. Immediate medical attention is required.

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. 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

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge 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 PrecautionsAvoid 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

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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	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³	IDLH: 10 mg/m ³
1310-73-2		(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³

Appropriate engineering controls

Showers **Engineering Measures**

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 Appearance Tan

No information available **Odor Threshold** Odor No information available

Property Values Remarks/ - Method 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/waterNo data available None known

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Autoignition TemperatureNo data availableNone knownDecomposition TemperatureNo data availableNone known

Viscosity 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

Inhalation May cause irritation of respiratory tract.

Eye ContactCauses serious eye damage.Skin ContactCauses severe skin burns.IngestionMay 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

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Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Target Organ Effects

Aspiration Hazard

No information available.
No information available.
Eyes. Skin. Respiratory system.
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) 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	
	Corrosive	
Sodium carbonate	Corrosive	

14. TRANSPORT INFORMATION

DOT

UN1759

Proper shipping name Corrosive solids, n.o.s.

Hazard Class 8
Packing Group ||

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

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Para C/O

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TDG UN-Number UN1759

Proper Shipping Name Corrosive solid, n.o.s.

Hazard Class 8
Packing Group ||

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 ||

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 ||

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 ||

EmS No. F-A, S-B

Description UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II

<u>RID</u>

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

<u>ADN</u>

Proper Shipping Name Corrosive solid, n.o.s.

Hazard Class 8
Packing Group II
Classification Code C10

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Description UN1759, Corrosive solid, n.o.s. (Sodium hydroxide), 8, II

Limited Quantity 1 kg

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL Complies

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 HazardYesChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

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
			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	Х		

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION				
NFPA	Health Hazard 3	Flammability 0	Instability 1	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 3	Flammability 0	Physical Hazard 1	Personal Protection X

Prepared By Product Stewardship

23 British American Blvd.

Latham, NY 12110 1-800-572-6501

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<u>General Disclaimer</u>
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