

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

GHS product identifier

Product Name LAUNDRY DETERGENT

Other means of identification

Product Code(s) ENERLD

Synonyms SLD

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	DISTRIBUTOR ADDRESS RON DISTRIBUTORS 4185 DAIRY COURT PORT ORANGE, FL 32129 TEL: 386-238-4245
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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 2
Serious Eye Damage/Eye Irritation	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word Warning

Hazard Statements	
<ul style="list-style-type: none"> • Causes skin irritation • Causes serious eye irritation 	

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Appearance Clear	
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	Physical State Solid.	
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	Odor No information available	
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Precautionary Statements	
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Prevention	<ul style="list-style-type: none"> • Wash face, hands and any exposed skin thoroughly after handling • Wear protective gloves/protective clothing/eye protection/face protection.
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General Advice	<ul style="list-style-type: none"> • None
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Eyes	<ul style="list-style-type: none"> • 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.
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Skin	<ul style="list-style-type: none"> • 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.
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Storage	<ul style="list-style-type: none"> • None
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Disposal	<ul style="list-style-type: none"> • None
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Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

SLD

Chemical Name	CAS-No	Weight %	Trade secret
Sodium chloride	7647-14-5	> 30	*
Sodium carbonate	497-19-8	15-30	*
Sodium metasilicate	6834-92-0	1-5	*
Ethylene oxide-Nonylphenol polymer	9016-45-9	1-5	*

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

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. 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 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. If spilled, take caution, as material can cause surfaces to become very slippery.
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Environmental Precautions

Environmental Precautions	Dispose of contents/container to an approved waste disposal plant.
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Methods and materials for containment and cleaning up

Methods for Containment	Stop leak if you can do it without risk
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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.
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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.
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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 container closed when not in use.
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Incompatible Products	Strong acids.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Safety glasses with side-shields.
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Skin and Body Protection	Rubber gloves. Latex gloves
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Respiratory Protection	Particle filtering face piece
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Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid
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Appearance	Clear
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Odor	No information available
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Odor Threshold	No information available
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<u>Property</u>	<u>Values</u>
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<u>Remarks/ - Method</u>

pH	11.2
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(4 % solution)

Melting Point/Range	No data available
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None known

Boiling Point/Boiling Range	No data available
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None known

Flash Point	No data available
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None known

Evaporation rate	No data available
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	None known
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Flammability (solid, gas)	No data available
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	None known
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Flammability Limits in Air	
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upper flammability limit	No data available
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lower flammability limit	No data available
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Vapor Pressure	No data available
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	None known
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Vapor Density	No data available
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	None known
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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	

Autoignition Temperature	No data available

None known	

Decomposition Temperature	No data available

None known	

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Viscosity	No data available
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	None known
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Flammable Properties	Not flammable
Explosive Properties	No data available
Oxidizing Properties	No data available
<u>Other information</u>	
VOC Content (%)	No data available

10. STABILITY AND REACTIVITY

<u>Reactivity.</u>
No data available.

<u>Chemical stability.</u>
Stable under recommended storage conditions.
<u>Possibility of hazardous reactions</u>
None under normal processing.
<u>Conditions to avoid</u>
Incompatible products.
<u>Incompatible materials</u>
Strong acids.
<u>Hazardous decomposition products</u>
None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

<u>Information on likely routes of exposure</u>	
Product Information	
Inhalation	May cause irritation of respiratory tract.
Eye Contact	Causes serious eye irritation.
Skin Contact	Causes skin irritation.
Ingestion	May be harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium chloride	= 3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m ³ (Rat) 1 h
Sodium carbonate	= 4090 mg/kg (Rat)	-	-
Sodium metasilicate	= 600 mg/kg (Rat)	-	-
Ethylene oxide-Nonylphenol polymer	= 1310 mg/kg (Rat)	= 2 mL/kg (Rabbit)	-
Sodium carboxymethyl cellulose	= 27000 mg/kg (Rat)	> 2 g/kg (Rabbit)	> 5800 mg/m ³ (Rat) 4 h

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.
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 2769 mg/kg; Acute toxicity estimate
LD50 Dermal 1994 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)
Sodium chloride 7647-14-5		LC50 96 h: 5560 - 6080 mg/L flow-through (Lepomis macrochirus) LC50 96 h: = 12946 mg/L static (Lepomis macrochirus) LC50 96 h: 6020 - 7070 mg/L static (Pimephales promelas) LC50 96 h: = 7050 mg/L semi-static (Pimephales promelas) LC50 96 h: 6420 - 6700 mg/L static (Pimephales promelas) LC50 96 h: 4747 - 7824 mg/L flow-through (Oncorhynchus mykiss)		EC50 48 h: = 1000 mg/L (Daphnia magna) EC50 48 h: 340.7 - 469.2 mg/L Static (Daphnia magna)
Sodium carbonate 497-19-8	EC50 120 h: = 242 mg/L (Nitzschia)	LC50 96 h: = 300 mg/L static (Lepomis macrochirus) LC50 96 h: 310 - 1220 mg/L static (Pimephales promelas)		EC50 48 h: = 265 mg/L (Daphnia magna)
Sodium metasilicate 6834-92-0		LC50 96 h: = 210 mg/L semi-static (Brachydanio rerio) LC50 96 h: = 210 mg/L (Brachydanio rerio)		EC50 96 h: = 216 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
Sodium carbonate

California Hazardous Waste
Corrosive

14. TRANSPORT INFORMATION

DOT Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

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	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations	
California Proposition 65 This product does not contain any Proposition 65 chemicals.	
U.S. State Right-to-Know Regulations	
This product does not contain any substances regulated by state right-to-know regulations.	
U.S. EPA Label Information	
EPA Pesticide Registration Number	Not applicable

16. OTHER INFORMATION

NFPA			
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	Health Hazard	2		
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	Flammability	0		
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	Instability	0		
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	Physical and Chemical Hazards	-		
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HMIS			
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	Health Hazard	2		
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	Flammability	0		
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	Physical Hazard	0		
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	Personal Protection	X		
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Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
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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