

# SAFETY DATA SHEET

Issuing Date 07-Aug-2013

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Revision Number 0

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

### GHS product identifier

Product Name Radiance Powdered Laundry Detergent

### Other means of identification

Product Code(s) SLD

Synonyms

### 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 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               |         |
| • Causes skin irritation        |         |
| • Causes serious eye irritation |         |

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

- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection.

**General Advice**

- None

**Eyes**

- 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.

**Skin**

- 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.

**Storage**

- None

**Disposal**

- None

**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.

|                     |   |
|---------------------|---|
| <b>Skin Contact</b> | Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.              |
| <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. 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.

**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 container closed when not in use.

**Incompatible Products** Strong acids.

## 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.

**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. Latex gloves  
**Respiratory Protection** Particle filtering face piece

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical State</b> | Solid                    | <b>Appearance</b>     | Clear                    |
| <b>Odor</b>           | No information available | <b>Odor Threshold</b> | No information available |

| <b><u>Property</u></b>                        | <b><u>Values</u></b> | <b><u>Remarks/ - Method</u></b> |
|---|----------------------|---------------------------------|
| <b>pH</b>                                     | 11.2                 | (4 % solution)                  |
| <b>Melting Point/Range</b>                    | No data available    | None known                      |
| <b>Boiling Point/Boiling Range</b>            | No data available    | None known                      |
| <b>Flash Point</b>                            | No data available    | None known                      |
| <b>Evaporation rate</b>                       | No data available    | None known                      |
| <b>Flammability (solid, gas)</b>              | No data available    | None known                      |
| <b>Flammability Limits in Air</b>             |                      |                                 |
| upper flammability limit                      | No data available    |                                 |
| lower flammability limit                      | No data available    |                                 |
| <b>Vapor Pressure</b>                         | No data available    | None known                      |
| <b>Vapor Density</b>                          | No data available    | None known                      |
| <b>Relative Density</b>                       | No data available    | None known                      |
| <b>Specific Gravity</b>                       | No data available.   | None known                      |
| <b>Water Solubility</b>                       | 100%                 | None known                      |
| <b>Solubility in other solvents</b>           | No data available    | None known                      |
| <b>Partition coefficient: n-octanol/water</b> | 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                      |

|                                 |                   |
|---------------------------------|-------------------|
| <b>Flammable Properties</b>     | Not flammable     |
| <b>Explosive Properties</b>     | No data available |
| <b>Oxidizing Properties</b>     | No data available |
| <b><u>Other information</u></b> |                   |
| <b>VOC Content (%)</b>          | 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**

Incompatible products.

### **Incompatible materials**

Strong acids.

### **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 irritation.             |
| <b>Skin Contact</b> | Causes skin irritation.                    |
| <b>Ingestion</b>    | May be harmful if swallowed.               |

| <b>Chemical Name</b>               | <b>LD50 Oral</b>      | <b>LD50 Dermal</b>   | <b>LC50 Inhalation</b>               |
|------------------------------------|-----------------------|----------------------|--------------------------------------|
| Sodium chloride                    | = 3 g/kg ( Rat )      | > 10 g/kg ( Rabbit ) | > 42 g/m <sup>3</sup> ( 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 <sup>3</sup> ( 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.

|                                 |  |
|---------------------------------|--|
| <b>Mutagenic Effects</b>        | No information available.                      |
| <b>Carcinogenicity</b>          | Contains no ingredient listed as a carcinogen. |
| <b>Reproductive Toxicity</b>    | No information available.                      |
| <b>STOT - single exposure</b>   | No information available.                      |
| <b>STOT - repeated exposure</b> | No information available.                      |
| <b>Aspiration Hazard</b>        | No information available.                      |

**Numerical measures of toxicity - Product**

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

|                    |                                     |
|--------------------|-------------------------------------|
| <b>LD50 Oral</b>   | 2769 mg/kg; Acute toxicity estimate |
| <b>LD50 Dermal</b> | 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<br>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<br>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<br>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    | California Hazardous Waste |
|------------------|----------------------------|
| Sodium carbonate | Corrosive                  |

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

|              |          |
|--------------|----------|
| <b>TSCA</b>  | Complies |
| <b>DSL</b>   | Complies |
| <b>IECSC</b> | Complies |
| <b>KECL</b>  | Complies |
| <b>PICCS</b> | Complies |
| <b>AICS</b>  | Complies |

### Legend

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

|  |     |
|--|-----|
| <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 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

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|                    |                        |                       |                          |  |
|--------------------|------------------------|-----------------------|--------------------------|--|
| <b><u>NFPA</u></b> | <b>Health Hazard 2</b> | <b>Flammability 0</b> | <b>Instability 0</b>     | <b>Physical and Chemical Hazards -</b> |
| <b><u>HMIS</u></b> | <b>Health Hazard 2</b> | <b>Flammability 0</b> | <b>Physical Hazard 0</b> | <b>Personal Protection X</b>           |

**Prepared By** Product Stewardship  
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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**