

# Safety Data Sheet

Issue Date 22-Mar-2011

Revision/Review Date: 05-Mar-2026

Version 1.2

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Radiance #4 Multi-Purpose Enzyme Digester

### Other Means of Identification

**Product Code** 10079877

### Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Bio-enzymatic digestant. For industrial & institutional use.

### Details of the Supplier of the Safety Data Sheet

Pollock  
1 Pollock Place  
Grand Prairie, TX 75050

### Emergency Telephone Number

**Company Phone Number** Phone: 1-800-843-7320  
**Emergency Telephone (24 hr)** INFOTRAC: Customer Number: 77538  
1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Orange

**Physical State** Liquid

**Odor** Fresh

### GHS Classification

Serious Eye Damage/Eye Irritation

Category 2 Sub-category A

### Signal Word

Warning



### Hazard Statements

Causes serious eye irritation.

### Precautionary Statements - Prevention

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

### Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If irritation persists: Get medical advice/attention.

### Precautionary Statements - Storage

No other specific measures identified.

### Precautionary Statements - Disposal

No other specific measures identified.

### Other Hazards

None known.

**Product AT USE DILUTION**

GHS Classification: Not classified.  
 Signal Word: No signal word.  
 Hazard Statements: No known significant effects or critical hazards.  
 Prevention: Wash thoroughly after handling.  
 Response: Get medical attention if symptoms appear.  
 Disposal: No other specific measures identified.  
 Other Hazards: None known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Alcohols, C9-11 ethoxylated	68439-46-3	10-30
Bacillus Spores	Proprietary	1-5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. \*\*

**Product AT USE DILUTION**

No hazardous ingredients in reportable quantities are present in the product.

**4. FIRST-AID MEASURES****First Aid Measures**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact</b>	If skin irritation occurs, rinse affected area with water.
<b>Inhalation</b>	No known hazardous effects. If symptoms occur, remove to fresh air.
<b>Ingestion</b>	Drink plenty of water. If any discomfort persists, obtain medical attention.

**Most Important Symptoms and Effects**

<b>Symptoms</b>	Prolonged contact may cause painful stinging or burning of eyes and lids, watering of eye, and irritation. Prolonged or repeated skin contact may cause irritation.
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**Indication of any Immediate Medical Attention and Special Treatment Needed**

<b>Notes to Physician</b>	Treat symptomatically.
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**Product AT USE DILUTION**

**Eye Contact:** No known effect. Rinse with water for a few minutes.  
**Skin Contact:** No known effect. Rinse with water for a few minutes.  
**Inhalation:** No special measures required. Treat symptomatically.  
**Ingestion:** Get medical attention if symptoms occur.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Water spray (fog). Carbon dioxide (CO2). Dry chemical. Foam.

**Unsuitable Extinguishing Media**

Not determined.

**Specific Hazards Arising from the Chemical**

None known.

**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** Use personal protective equipment as required.

**Environmental Precautions** Avoid release to the environment.

### Methods and Material for Containment and Cleaning Up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Safety glasses and gloves should be worn when cleaning up spillage. Collect spillage. Collect in a clean, dry waste container for disposal. After cleaning, flush away traces with water.

### **Product AT USE DILUTION**

**Personal Precautions:** Use personal protective equipment as required.

**Environmental Precautions:** Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

**Methods for Clean Up:** Use a water rinse for a final clean-up.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Advice on Safe Handling** Avoid contact with eyes. Observe good industrial hygiene practices.

### Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

**Incompatible Materials** Acids, bases, oxidizers, cationics

### **Product AT USE DILUTION**

**Handling and Storage:** Wash thoroughly after handling. Keep out of reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** No exposure limits noted for ingredient(s)

### Appropriate Engineering Controls

**Engineering Controls** Good general room ventilation should be adequate under normal conditions.

### Individual Protection Measures, such as Personal Protective Equipment

**Eye/Face Protection** Safety glasses recommended when handling concentrated material.

**Skin and Body Protection** Chemical resistant gloves recommended when handling concentrated material.

**Respiratory Protection** No protective equipment is needed under normal use conditions.

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

**Product AT USE DILUTION**

**Engineering Controls:** Good general room ventilation should be adequate.  
**Eye Protection:** No protective equipment needed under normal use conditions.  
**Skin and Body Protection:** No protective equipment needed under normal use conditions.  
**Respiratory Protection:** No protective equipment is needed under normal use conditions.  
**General Hygiene Considerations:** 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>	Liquid	<b>Odor</b>	Fresh
<b>Appearance</b>	Clear to Hazy	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Orange		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
<b>pH</b>	6.5-7.5		
<b>Melting Point/Freezing Point</b>	~ 0 °C / ~32 °F		
<b>Boiling Point/Boiling Range</b>	~ 100 °C / ~212 °F		
<b>Flash Point</b>	Not applicable	Tag Open Cup	
<b>Evaporation Rate</b>	Not determined		
<b>Flammability (Solid, Gas)</b>	n/a-liquid		
<b>Upper Flammability Limits</b>	Not determined		
<b>Lower Flammability Limit</b>	Not determined		
<b>Vapor Pressure</b>	Not determined		
<b>Vapor Density</b>	Not determined		
<b>Specific Gravity</b>	1.02		
<b>Water Solubility</b>	Completely soluble	@ 25 °C (77 °F)	
<b>Solubility in other solvents</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Auto-ignition Temperature</b>	Not determined		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Not determined		
<b>Explosive Properties</b>	Not determined		
<b>Oxidizing Properties</b>	Not determined		

**Product AT USE DILUTION**

**Physical State:** Liquid  
**Color:** Light orange  
**Odor:** Fresh  
**pH:** 6.5-7.5

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

Not reactive under normal conditions.

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to Avoid**

Keep out of reach of children. Keep from freezing.

**Incompatible Materials**

Acids, bases, oxidizers, cationics

**Hazardous Decomposition Products**

When exposed to fire, produces normal products of combustion.

**11. TOXICOLOGICAL INFORMATION**

**Information on Likely Routes of Exposure****Product Information**

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	Avoid contact with skin.
<b>Inhalation</b>	Avoid breathing vapors or mists.
<b>Ingestion</b>	Do not taste or swallow.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Alcohols, C9-11 ethoxylated 68439-46-3	= 1378 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

**Information on Physical, Chemical and Toxicological Effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure**

**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical Measures of Toxicity**

Not determined

**Product AT USE DILUTION**

No specific data available.

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

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Alcohols, C9-11, Ethoxylated 68439-46-3	-	7.25 mg/L (96hr)	-	5.5 mg/L (Daphnia 48hr)

**Persistence/Degradability**

Not determined

**Bioaccumulation**

Not determined

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national, and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national, and local laws and regulations.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated  
**IATA** Not regulated  
**IMDG** Not regulated

**Product AT USE DILUTION**  
 Not intended for transport.

**15. REGULATORY INFORMATION**

**International Inventories**

Canada – Domestic Substances List (DSL) All ingredients are listed or exempt.  
 TSCA (Toxic Substances Control Act) All ingredients are listed or exempt.

**Legend:**

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

**US Federal Regulations**

**SARA 311/312 Hazard Categories**

**Acute Health Hazard** Yes

**SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
None listed	-	-	-

**US State Regulations**

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

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List:

Chemical Name	State List
None listed	

- |  |  |
|--|--|
| AZ- Arizona Ambient Air Quality Guidelines             | IL- Illinois Toxic Air Contaminant- Carcinogenic |
| CT- Connecticut Hazardous Air Pollutants               | MA- Massachusetts Right to Know List             |
| CA- California Director's List of Hazardous Substances | MN- Minnesota Hazardous Substances List          |
| CAP65- California Prop65                               | NJ- New Jersey Right to Know List                |
| FL- Florida Substances List                            | PA- Pennsylvania Right to Know List              |
| ID- Idaho Non-Carcinogen Toxic Air Pollutants          | RI- Rhode Island Hazardous Substances List       |

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b> Not determined	<b>Flammability</b> Not determined	<b>Instability</b> Not determined	<b>Special Hazards</b> Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b> 1	<b>Flammability</b> 0	<b>Physical Hazards</b> 0	<b>Personal Protection</b> Glasses

**Product AT USE DILUTION**

Health Hazard: 1  
 Flammability: 0  
 Physical Hazards: 0  
 Personal Protection: None required

**Issue Date** 22-Mar-2011  
**Revision/Review Date:** 05-Mar-2026  
**Revision Note** Version 1.2 Updated Sections 2, 3 & 9

**Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered 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 materials or in any process, unless specified in the text.

**Keep Out of Reach of Children. For Industrial and Institutional Use Only.**

\*Denotes changes from last version.

**End of Safety Data Sheet**