

# SAFETY DATA SHEET

## Antimethanogenic Anaerobic Biostimulant ERD-CH4™

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ERD-CH4™; ERD-CH4™ GO-Ole'  
**GENERAL USE:** Bioremediation of halogenated organics and metals

**MANUFACTURER:**

**Provectus Environmental Products, Inc**  
 2871 W. Forest Rd. #2  
 Freeport, IL 61032  
 (815) 650-2230

**EMERGENCY TELEPHONE:**

Within USA and Canada: 1-800-424-9300  
 +1 703-527-3887 (collect calls accepted)

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Product is generally recognized as safe. May cause irritation exposure to eyes. Long term contact to skin may cause some drying and minor irritation.

### 3. COMPOSITION INFORMATION ON INGREDIENTS

Proprietary mixture of fatty acids, glycerol, vegetable oils, garlic\*, yeast extracts\*, iron\* and emulsifying agent.

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>Toxic Release Inventory (TRI) Listed Chemicals</u>
Iron (Fe)(*)	7439-89-6	0 – 20	NA	NA
Glycerol	56-81-5	2 – 10	NA	NA
Oleic Acid	112-80-1	20 – 50	NA	NA
Stearic Acid (emulsifier)	57-11-4	1 – 10	NA	NA
Food Grade Veg Oil	8001-22-7	10 – 30	NA	NA
Potable Water	7732-18-5	10 – 20	NA	NA
Yeast Extracts(*)	8013-01-2	0 – < 5	NA	NA
Garlic(*)	539-86-6	0 – < 5	NA	NA

\*(some formulations contain these materials)

### 4. FIRST AID MEASURES

**EYES:** Immediately flush with water for up to 15 minutes. If irritation persists, seek medical attention.

**SKIN:** Rinse with water. Irritation is unlikely, but if irritation occurs or persists, seek medical attention.

**INGESTION:** Generally safe to ingest but not recommended.

**INHALATION:** No first aid required.

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Deluge with water

**FIRE/EXPLOSION HAZARDS:** Product is combustible only at temperatures above 600C

**FIRE FIGHTING PROCEDURES:** Use flooding with plenty of water, carbon dioxide or other inert gasses. Wear full protective clothing and self-contained breathing apparatus. Deluging with water is the best method to control combustion of the product.

**FLAMMABILITY LIMITS:** non-combustible

**SENSITIVITY TO IMPACT:** non-sensitive

**SENSITIVITY TO STATIC DISCHARGE:** non-sensitive

## 6. ACCIDENTAL RELEASE MEASURES

Confine and collect spill. Transfer to an approved DOT container and properly dispose. Do not dispose of or rinse material into sewer, stormwater or surface water. Discharge of product to surface water could result in depressed dissolved oxygen levels and subsequent biological impacts.

## 7. HANDLING AND STORAGE

**HANDLING:** Protective gloves and safety glasses are recommended.

**STORAGE:** Keep dry. Use first in, first out storage system. Keep container tightly closed when not in use. Avoid contamination of opened product. Avoid contact with reducing agents.

## 8. EXPOSURE CONTROLS – PERSONAL PROTECTION

### EXPOSURE LIMITS

Chemical Name	ACGIH	OSHA	Supplier
ERD-CH4	NA	NA	NA

**ENGINEERING CONTROLS:** None are required

### PERSONAL PROTECTIVE EQUIPMENT

**EYES and FACE:** Safety glasses recommended

**RESPIRATOR:** none necessary

**PROTECTIVE CLOTHING:** None necessary

**GLOVES:** rubber, latex or neoprene recommended but not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor:	none to mild pleasant organic odor
Appearance:	milky
Auto-ignition Temperature	Non-combustible
Boiling Point	>600 C
Melting Point	NA
Density	0.90 gram/cc
Solubility	infinite
pH	7-9

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Do not contact with strong oxidizers

**STABILITY:** product is stable

**POLYMERIZATION:** will not occur

**INCOMPATIBLE MATERIALS:** strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:**

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

A: General Product Information

Acute exposure may cause mild skin and eye irritation.

B: Component Analysis - LD50/LC50

No information available.

B: Component Analysis - TDLo/LDLo

TDLo (Oral-Man) none

### Carcinogenicity

A: General Product Information

No information available.

B: Component Carcinogenicity

Product is not listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

### Epidemiology

No information available.

### Neurotoxicity

No information available.

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Discharge to water may cause depressed dissolved oxygen and subsequent ecological stresses

### **Environmental Fate**

No potential for food chain concentration

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Material is not considered hazardous, but consult with local, state and federal agencies prior to disposal to ensure all applicable laws are met.

## 14. TRANSPORT INFORMATION

NOTE: The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under I.M.O., I.C.A.O. (I.A.T.A.) and 49 CFR to assure regulatory compliance.

### **US DOT Information**

Shipping Name: Not Regulated

Hazard Class: Not Classified

UN/NA #: Not Classified

Packing Group: None

Required Label(s):None

### **50<sup>th</sup> Edition International Air Transport Association (IATA):**

Not hazardous and not regulated

### **INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)**

Material is not regulated under IMDG

## 15. REGULATORY INFORMATION

### **UNITED STATES**

#### **SARA TITLE III**

SECTION 311 No Hazard for Immediate health Hazard

SECTION 312 No Threshold Quantity

SECTION 313 Not listed

**CERCLA** NOT REGULATED UNDER CERCLA

**TSCA** NOT REGULATED UNDER TSCA

**CANADA (WHIMS):** NOT REGULATED

## 16. OTHER INFORMATION

HMIS:

Health	0
Flammability	0
Physical Hazard	0
Personal Protection	E

E: Safety Glasses, gloves