



3425 Radio Rd. #202, Naples, FL 34104 · Tel: (239) 261-6500 · Fax: (239) 465-0271

## PENTERRA

# MATERIAL SAFETY DATA SHEET

### SECTION I - IDENTIFICATION

MANUFACTURER'S NAME Geoponics Corp.  
3425 Radio Rd. #202  
Naples, FL 34104  
PHONE NUMBER.....239-261-6500  
EMERGENCY PHONE NUMBER.....(800) 424-9300 (Chemtrec)  
EFFECTIVE DATE.....02-19-03  
TRADE NAME .....PENTERRA  
CHEMICAL FAMILY.....Anionic Surfactant Blend  
CAS NUMBER .....NA  
CHEMICAL FORMULA.....Mixture

### SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	%	OSHA PEL	ACGIH TLV	CAS
Diethylene Glycol	6	Nd	ND	57-55-6

### SECTION III - PHYSICAL DATA

Boiling Point	212°F	Specific Gravity	1.1
Vapor Pressure	<1	Solubility in Water	Dispersible
Vapor Density (Air=1)	>1	pH	6
Evaporation Rate	Less than n-Butyl Acrylate	Viscosity	ND
Volatile Organic Compounds	ND	Appearance	Clear, colorless liquid
		Odor	Slight odor

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point .....>210°F (PMCC)  
Lower Flame Limit.....NE  
Upper Flame Limit.....NE  
Extinguishing Media .....Use Water Spray, Foam, Dry Chemical, Carbon Dioxide (CO<sub>2</sub>)  
Unusual Fire Hazard .....Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away.

## SECTION V - HEALTH HAZARD DATA

Threshold Limit Value.....None Established

Routes of Entry	Inhalation ? IRRITANT	Skin ? IRRITANT	Ingestion ? IRRITANT
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Health Hazards: Liquid or vapors may be irritating to skin, eyes, nose and throat.

Carcinogenicity:	NTP ? No	IARC Monographs ? No	OSHA regulated ? No
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Over Exposure Effects:

Ingestion:	Overexposure may cause gastrointestinal irritation diarrhea, nausea and vomiting
Eyes:	May cause severe eye irritation
Skin:	Overexposure may cause itching and rednesses similar to a rash.
Inhalation:	Expected to be irritating to respiratory tract

First Aid Procedures:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If itching and redness persist, seek medical attention. If swallowed, do not induce vomiting. If victim is conscious and able to swallow, quickly give milk or water to dilute. Do not give sodium bicarbonate, vinegar, or fruit juices. Never give anything by mouth if victim is unconscious or having convulsions. Get immediate medical attention.

## SECTION VI - REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	Heat, sparks, and open flames
Incompatibility, Materials to Avoid:	Strong oxidizers
Hazardous Decomposition Byproducts:	Smoke, oxides of carbon and sulfur
Hazardous Polymerization:	Not likely to occur

## SECTION VII - SPILL OR LEAK PROCEDURE

Steps in Case Material is Released or Spilled:	In case of spillage, contain material with dikes or absorbents to prevent migration and entry into sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent and dispose of in accordance with applicable regulations. May require excavation of contaminated soil
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Disposal Method:	If Hazardous Waste, follow Federal and State Regulations.
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## SECTION VIII - SPECIAL PROTECTION

Respiratory Protection: .....	While handling, use NIOSH approved organic vapor mask
Ventilation: .....	General ventilation is recommended during normal use. Local Exhaust may be required during certain operations to prevent inhalation of vapors.
Mechanical Exhaust .....	Desired in Closed places
Local Exhaust .....	Recommended at source of heated vapors
Protective gloves:.....	Wear impervious gloves (chemical-resistant nitrile, neoprene or rubber)
Eye Protection:.....	Use goggles or face shield if splashing is likely
Other Protective Equipment .....	HMIS Personal Protection: D: Face Shield, Gloves, Apron. Eye wash station and safety shower should be available.

## SECTION IX - SPECIAL HANDLING

Handling and Storage	Keep from freezing. Keep away from heat or open flames.		
Precautionary Measures	Avoid prolonged contact. Use with adequate ventilation.		
Hazard Class	Non-hazardous		
DOT Shipping Name	Not Regulated, Class 55		
Reportable Quantity (RQ)	NA		
UN Number	NA		
NA Number	NE		
Packaging Size	ND		
HMIS Rating	Health-1	Fire-1	Reactivity-0

## SECTION X - REGULATORY

### SARA Hazard Class

Fire	Pressure	Reactivity	Acute	Chronic
No	No	No	Yes	No

SARA This product is not reportable under SARA Title III, Sec 313. This product is reportable as an acute health hazard, eye and skin irritant, under SARA Title III, Sec 311 & 312.

Clean Air This product does not contain nor was it manufactured with any Class I or Class II ozone depleting substances pursuant to Sec 611 of the Clean Air Act Amendments of 1990 (40 CFR 82)

RCRA Refer to EPA or State regulations regarding proper disposal

Abbreviations Used:    NE - Not Established                      ND – Not Determined                      NA – Not Applicable

This product's safety information is provided to assist our customers in assessing compliance with health, safety and environmental regulations. The information contained herein is based on data available to us and is believed to be accurate, although no guarantee or warranty is provided by the company in this respect. Since the use of this product is within the exclusive control of the user, it is the User's obligation to determine the conditions of safe use of this product. Such conditions should comply with all federal regulations concerning the product. All materials in this product are produced in compliance with public law 94-469 (also known as the "toxic substances control act" of 1976).