

DESCRIPTION

GeoPerc" is a pre-mix of proprietary surfactants and surface tension reducers.

PERFORMANCE

GeoPercTM is a surfactant pre-mix solution for use in remediation on contaminated soils. **GeoPercTM** when added to irrigation water or dilutions of **ReNewTM** or **RxDPTM** improves percolation and soil cleansing.

PHYSICAL PROPERTIES

Appearance Viscous Amber Liquid
Weight 42 lbs. per 5 gallons
pH (as is) 9.0 -10.0

APPLICATION

GeoPerc should be added to dilutions of chemical amendments or to irrigation water at a rate of 5 gallons per 4000 gallons. No special equipment is required, but thorough blending is recommended for best results.

AVAILABILITY

5 gallon pails

SAFETY AND HANDLING

GeoPercTM is a non-toxic, non-hazardous solution and is not subject to DOT regulations. Protective clothing, rubber gloves, and either a face-shield or safety goggles are recommended. For further details, follow the Safety Data Sheet.

TECHNICAL SUPPORT

Technical assistance is available from personnel with extensive product knowledge and experience. Chemical engineers, chemists and lab technicians are on hand to provide customer support and assistance. Technical assistance is available by calling your **Environmental Recovery** sales representative.



Geo-Perc™ SAFETY DATA SHEET

Issuing Date 10-0ec-2014

Revision Date 10-Dec-2014

Revision Number 0

1. IDENTIFICATION

GHS product identifier

Product Name GeoPerc™

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use For Soil Amendment

Uses Advised Against No information available

Distributor's Details

Environmental Recovery 7555 Katy Freeway #161 Houston, TX. 77024

Emergency Telephone Number

Emergency Telephone Number CHEMTREC: 1-800-424-9300 for US/703-527-3887 outside US

2. HAZARDS IDENTIFICATION

Classification

This product is considered non-hazardous by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation

Category 2

GHS Label elements. including precautionary statements

Emergency Overview

Signal Word Hazard Statements

May be harmful if swallowed Causes serious eye irritation

Warning



Appearance: Colorless to Amber

Physical State: Viscous Liquid

Precautionary Statements

Prevention

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

Storage

None

Disposal

None

Hazard Not Otherwise Classified (HNOC)

Not applicable

3. COMPOSITION INFORMATION ON INGREDIENTS

The composition of this product is proprietary. In the event of a medical emergency, compositional information will be revealed to a physician of nurse. This product is Non-Hazardous as defined in 29 CFR 1910.1200.

4. FIRST AID MEASURES

Description of necessary first-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. If skin irritation persists, call a physician.

Inhalation Move to fresh air in case of accidental inhalation of vapors, Remove from exposure, lie

down. If symptoms persist, call a physician.

Ingestion Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms/effects. acute and delayed

Most Important Symptoms/Effects Irritation

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 No information available.

Specific Hazards Arising from the Chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None 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 Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure

adequate ventilation. Keep people away from and upwind of spill leak. Do not touch or

walk through spilled material.

Advice for emergency responders Wear personal protective equipment.

Environmental Precautions

Environmental Precautions Avoid release to the environment. Dispose of contents/container to an approved

waste disposal plant. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Dike far ahead of spill; use dry sand to

contain the flow of material

Methods for Cleaning Up Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

After cleaning, flush away traces with water. Prevent product from entering drains.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Wear PPE

Conditions for safe storage. including any incompatibilities

Storage Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled

containers.

Incompatible Products

None known based on information supplied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Appropriate engineering controls

Engineering Measures Provide local exhaust ventilations system When there is a potential for exposure, an

emergency eyewash and safety shower should be provided within the immediate work

area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with non-flexible side shields or chemical goggles A face shield should

be worn if a potential for splashing or spraying exists.

Skin and Body Protection Wear appropriate protective, impervious clothing. Wear appropriate protective non-leather

protective gloves and boots. Chemical protective gloves and boots such as PVC, Neoprene, or Heavy Nitrile are recommended. Leather products do not offer adequate protection and

will dehydrate with resultant shrinkage and possible destruction

Respiratory Protection A respirator is not indicated under normal operating conditions. Use of a NIOSH - approved

respirator (N95 or greater) should be based on the presence of nuisance dusts.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Odor	Liquid - Viscous Odorless	Appearance Odor Threshold	Colorless/Amber No information available
Property pH Melting Point/Range Boiling Point/Boiling Range Flash Point Evaporation rate Flammability (solid, gas)	Values 50 - 7.0 59°F (15°C) >490°F (>250°C) 315°F (158°C) Not applicable. No data available	Remarks - Mone known None known None known None known None known None known	<u>ethod</u>
Flammability Limits in Air upper flammability limit lower flammability limit Vapor Pressure Vapor Density Specific Gravity Water Solubility	No data available No data available No data available No data available .098 @ 25°F	None known None known None known None known None known	
Solubility in other solvents Partition coefficient: n-octanol/ Autoignition Temperature Decomposition Temperature Viscosity	No data available water Not determined No data available No data available No data available	None known None known	
Flammable Properties	Not flammable		
Explosive Properties	No data available		

Oxidizing Properties

No data available

Other information

VOC Content (%) Not applicable.

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation May cause irritation.

Eye Contact Irritating to eyes.

Skin Contact Slightly toxic by dermal absorption.

Ingestion Moderately toxic by ingestion.

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
Mutagenic Effects

No information available.

No information available.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity

No information available.

STOT - single exposure STOT • repeated exposure Aspiration Hazard No information available. No information available. No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and Degradability

No information available.

Bioaccumulation

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT - Not Regulated

15. REGULATORY INFORMATION

International Inventories

Legend

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

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 3111312 Hazard Categories

Acute Health Hazard	No
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

U.S. EPA Label Information

EPA Pesticide Registration Number

Not applicable

16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection X

Issuing Date 10-0ec-2014
Revision Date 10-0ec-2014
Revision Note Initial Release.

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.

DISCLAIMER

Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. Further, nothing contained herein shall be taken as a recommendation to manufacture or use any of the herein described materials or processes in violation of existing or future patents.