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 Phone: (206) 774-8777 ~ Toll Free: 1 (800) 490-5320 ~ Fax (206) 219-3740

MATERIAL SAFETY DATA SHEET

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME TerraTac Dry
MANUFACTURER GeoCHEM, Inc.
 P.O. Box 143226
 Anchorage, AK 99514
 www.geocheminc.com

TELEPHONE NUMBER 800-490-5320 Toll Free USA

EMERGENCY TELEPHONE NUMBERS 800-490-5320 Toll Free USA
REVISION DATE June 2013 (*supersedes May 2007*)
SYNONYMS Soil stabilizer, soil stabilization agent, soil solidifier, soil amendment, soil additive, soil crusting agent, dust control agent, dust inhibitor, dust palliative, dust suppressant, dust retardant

INTENDED USE Industrial. Soil stabilization, soil solidification, fugitive dust control, dust suppression, dust abatement, tackifier, dust abatement, PM₁₀ and PM_{2.5} air quality control and erosion control. All other areas of application to be agreed with the Application Engineering/ Technical Marketing Department of the manufacturer.

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION (PREPARATION):
 Chemical characteristics Copolymer of vinyl acetate, ethylene and vinyl ester with mineral fillers and protective colloid.

INFORMATION ON INGREDIENTS:
 This material does not contain any hazardous substances at or above OSHA and WHMIS reportable levels. Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in Section 2 are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

SECTION 3 - HEALTH HAZARDS

HAZARDS CLASSIFICATIONS

HMIS [®] rating (product as packaged)			
Health:	1	Fire:	1
		Reactivity:	0
		PPE:	E

Note: Respiratory protection is only recommended in the event that ventilation or engineering controls are unable to maintain exposures below recommended levels; or in the event of a spill or other emergency response situation. Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.)

Canadian WHMIS Classification: None.

EMERGENCY OVERVIEW AND POTENTIAL HAZARDS

This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria.

Physical Hazards:	Nuisance dust.
Acute health effects	
Route of entry or possible contact	Eyes, skin, inhalation (in case of dust formation)
Eye contact:	No known eye hazards.
Skin contact:	May cause slight skin irritation.
Inhalation:	No acute toxic respiratory tract effects are expected.
Ingestion	Ingestion is not expected in industrial use.
Additional information:	None.

FURTHER INFORMATION:

Chronic health effects:	No known or expected chronic health effects. A long term exposure exceeding TLV can lead to
Medical conditions which may be aggravated by exposure:	None known.
Target organs affected:	No known internal organ effects.
Signs and Symptoms of Exposure:	Refer to Acute Health Effects, listed above.

SECTION 4 - FIRST AID MEASURES

GENERAL INFORMATION:

Get medical attention if irritation occurs or if breathing becomes difficult.

AFTER INHALATION:

If inhaled, remove to fresh air, keep the victim laying down and restful.

AFTER CONTACT WITH THE SKIN:

If contact with skin, wash skin with plenty of water or with water and soap.

AFTER CONTACT WITH THE EYES:

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

AFTER SWALLOWING:

If swallowed, give victim several glasses of water.

ADVICE FOR THE PHYSICIAN:

Treat symptomatically.

SECTION 5 - FIRE AND EXPLOSION DATA

FLASH POINT (closed cup)

Not applicable

BOILING POINT/BOILING RANGE

Not applicable

LOWER EXPLOSION LIMIT (LEL)

30g/m³

IGNITION TEMPERATURE

Approx. 500°C (932° F)

FIRE HAZARD CLASSIFICATION (OSHA/NFPA)

Dust may form explosive mixture with air. Electrostatic charging is possible

EXTINGUISHING MEDIA

Water-spray, water-mist, carbon dioxide, dry chemical or foam-type extinguishing media.

UNSUITABLE EXTINGUISHING MEDIA

Sharp water jet

SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, COMBUSTION PRODUCTS, RESULTING GASES:

At low oxygen level: acetic acid.

FIRE FIGHTING PROCEDURES

Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES (Removal of ignition sources, diking etc)

Stop the leak, if possible. Ventilate the space involved.

CLEAN-UP PROCEDURES

Wear suitable protective equipment. If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Prevent spilled material from entering sanitary sewers, storm sewers, drainage systems and from entering bodies of water or ditches that lead to waterways. Transfer to containers by suction, preparatory for later disposal. Place in metal containers for recovery or disposal. Flush area with water spray. Wash contaminated property (e.g., automobiles) quickly before the material dries. For large spills, recover spilled material with a vacuum truck.

OTHER EMERGENCY ADVICE

Spilled polymer emulsion is very slippery. Use care to avoid falls. A film will form on drying. Remove saturated clothing and wash contacted skin area with soap and water. Product imparts a milky white color to contaminated waters. Foaming may result. Sewage treatment plants may not be able to remove the white color imparted to the water.

SECTION 7 - HANDLING AND STORAGE

STORAGE

Keep from freezing. Store in a dry area. Keep containers closed when not in use to minimize contact with atmospheric air and prevent inoculation with microorganisms.

HANDLING

Use only in well-ventilated areas. Avoid contact with eyes. Avoid breathing vapors. Avoid prolonged or repeated contact with skin. Wash hands thoroughly after handling and before eating or drinking.

SECTION 8 - PERSONAL PROTECTION / EXPOSURE CONTROLS

EXPOSURE GUIDELINES

There are no Occupational Safety and Health (OSHA) Permissible Exposure Limits (PEL) or American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV) or Short Term Exposure Limits (STEL) established for the component(s) of this product.

EYE PROTECTION

Chemical safety glasses.

HAND PROTECTION

Rubber Gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.

RESPIRATORY PROTECTION

Not required under normal use.

PROTECTIVE CLOTHING

No specific recommendation.

ENGINEERING CONTROLS

Good general ventilation should be sufficient to control airborne levels of irritating vapors.

SECTION 9 - TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	liquid
COLOR	Milky White (transparent once cured)
ODOR	Mild / Slight (no odor once cured)
pH	4.5-6.0
EVAPORATION RATE	< 1 (BuAc=1)
VAPOR DENSITY	> 1 (Air = 1)
BOILING POINT	>100.00°C (>212.00°F)
FREEZING POINT	<0°C (<32°F)
SOLUBILITY IN WATER	Completely (100%) (until cured)
SPECIFIC GRAVITY (Water = 1)	1.05-1.10

SECTION 10 - STABILITY AND REACTIVITY

STABILITY

Stable at ambient temperatures. Coagulation may occur following freezing, thawing or boiling.

INCOMPATIBILITY (Materials to Avoid)

No incompatibilities have been identified.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition may form: Acetic acid and Acrolein. Thermal decomposition may produce various hydrocarbons and irritating, acrid vapors.

HAZARDOUS POLYMERIZATION

Will not occur

CONDITIONS TO AVOID

Freezing temperatures (until cured).

SECTION 11 - TOXICOLOGICAL PROPERTIES

ACUTE EYE TOXICITY

No Information is available.

ACUTE ORAL TOXICITY

No Information is available.

ACUTE SKIN TOXICITY

No Information is available.

ACUTE INHALATION TOXICITY

No Information is available.

CHRONIC/CARCINOGENICITY

This material **does not** contain 0.1% or more of any chemical listed by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or regulated by the Occupational Safety and Health Administration (OSHA) as a carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY

Common Name Species	Test	Result	Concentration
Green Algae	Raphidocelus Subcapitata	96-hr chronic LC50	>1,000 Undiluted
Fathead Minnow	Pimephales Promelas	96-hr acute LC50	>1,208 Undiluted
Rainbow Trout	Oncorhynchus Mykiss	96-hr acute LC50	>1,000 Undiluted

ENVIRONMENTAL FATE

No data is available.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

This material **is not** a RCRA hazardous waste. Disposal of this material is not regulated under RCRA. Consult federal, state and local regulations to ensure that this material and its containers, if discarded, is disposed of in compliance with all regulatory requirements. NOTE: As supplied or diluted, product material (foam included), when splashed on automobiles or other personal property, is difficult to remove if allowed to dry.

RCRA HAZARD CLASS

This material **is not** a RCRA hazardous waste. When discarded in its purchased form, this material would not be regulated as a RCRA Hazardous waste under 40 CFR 261.

SECTION 14 - TRANSPORT INFORMATION

DOT NON-BULK SHIPPING NAME

Refer to Bill of Lading - Not DOT Regulated // Keep From Freezing // Not dangerous goods

DOT BULK SHIPPING NAME

Refer to Bill of Lading.

IMO SHIPPING DATA

Refer to Bill of Lading.

ICAO/IATA SHIPPING DATA

Refer to Bill of Lading - Not IATA Regulated // Keep From Freezing // Not dangerous goods

CFR

Not Regulated // Keep From Freezing // Not dangerous goods

IMDG

Not Regulated // Keep From Freezing // Not dangerous goods

CTC

Not Regulated // Keep From Freezing // Not dangerous goods

SECTION 15 - REGULATORY INFORMATION

TSCA SECTION 8(b) INVENTORY STATUS

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

TSCA SECTION 12(b) EXPORT NOTIFICATION

This material **does not** contain any components that are subject to the U.S. Toxic Substances Control Act (TSCA) Section 12 (b) Export Notification requirements.

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es)

This material **is not** classified as hazardous under the criteria of the U.S. Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200

EPA SARA Title III Section 304 CERCLA

Reportable quantities have not been established for any of this material's components.

EPA SARA Title III Section 311/312 HAZARD COMMUNICATION STANDARD (HCS)

This material **is not** a hazardous chemical.

EPA SARA Title III Section 313 TOXIC CHEMICAL LIST (TCL)

This product **does not** contain Section 313 Reportable Ingredients.

CANADIAN INVENTORY STATUS

All components of this material are listed on the Canadian Domestic Substances List (DSL)

CANADIAN WHMIS

This material **is not** classified as a controlled product under the Canadian Workplace Hazardous Material Information System.

ADDITIONAL CANADIAN REGULATORY INFORMATION

This product **does not** contain a substance present on the WHMIS Ingredient Disclosure List (IDL) which is at or above the specified concentration limit.

EUROPEAN INVENTORY STATUS (EINECS)

The polymer portion of this product is manufactured from reactants which are listed on EINECS and meets the EINECS definition of an exempt polymer.

AICS (Australia)

Included on inventory

ENCs (Japan)

Included on inventory

ECL (South Korea)

Included on inventory

SEPA (China)

Included on inventory

SECTION 16 - OTHER INFORMATION

HMIS and NFPA Classification

Health : 1
Flammability : 0
Reactivity : 0
Special Hazard : 0