



Material Safety Data Sheet

North America, LLC
natural surfaces
Product Name: TechniSoil*

Issue Date: 07/31/2008

TechniSoil North America, LLC encourages and expects you to read and understand the entire MSDS, as there is information throughout the document that will assist with the handling of this product. We expect you to follow the precautions identified in this document for the compliance of laws and the proper handling of the material.

1. Product and Company Identification

Product Name
TechniSoil Blend*

COMPANY IDENTIFICATION

TechniSoil North America, LLC
5680 Westside Road
Redding, CA. 96001
USA

Customer Information Number: 877.356.2250

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 800-424-9300
International Emergency Contact: +1 703-527-3887

2. Hazards Identification

Emergency Overview

Color: White

Physical State: Dispersion

Odor: Characteristic

Hazards of product:

No significant immediate hazards for emergency response are known. Dike and contain spill.

OSHA Hazard Communication Standard

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Health Effects

Eye Contact: May cause slight temporary eye irritation. Corneal injury is unlikely.

Skin Contact: Brief contact is essentially nonirritating to skin. Prolonged contact may cause slight skin irritation with local redness.

Skin Absorption: Prolonged skin contact is unlikely to result in absorption of harmful amounts.

* Indicates a Trademark

Inhalation: With good ventilation, single exposure is not likely to be hazardous. In poorly ventilated areas, vapors or mists may accumulate and cause respiratory irritation. Signs and symptoms of excessive exposure may include: Headache. Nausea and/or vomiting.

Ingestion: Low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

3. Composition Measurements

Component	CAS #	Amount
Proprietary co-polymer	Confidential	>= 5.5 - <= 57.5 %
Proprietary polymer	Confidential	>= 0.5 - <= 2.5 %
Water	7732-18-5	>= 42.0 -<= 94.0 %

4. First-aid measures

Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Wash skin with water.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Ingestion: No emergency medical treatment necessary.

Notes to Physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire Fighting Measures

Extinguishing Media: To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Unusual Fire and Explosion Hazards: This material will not burn until the water has evaporated. Residue can burn. Upon burning, the dry product generates dense black smoke.

Hazardous Combustion Products: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Carbon dioxide, Carbon monoxide, Dense smoke. Organic compounds.

6. Accidental Release Measures

Steps to be Taken if Material is Released or Spilled: Recover spilled material if possible. If unable to recover, then proceed with appropriate cleanup methods. Absorb with materials such as: Clay. Sand. Sawdust. Vermiculite. Water may be used for cleaning of affected area. Wash water should be disposed of in accordance with local regulations. See Section 13, Disposal Considerations, for additional information.

Personal Precautions: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental Precautions: Prevent from entering into sewers, waterways and/or groundwater. See Section 12, Ecological Information.

7. Handling and Storage

Handling

General Handling: Avoid prolonged or repeated contact with skin.

Storage

Store between 4.4°C (40°F) and 43.3°C (110°F). May coagulate if frozen at 0°C (32°F). Material may develop odor after long term storage. No safety problems known.

8. Exposure Controls / Personal Protection

Exposure Limits

None established

Personal Protection

Eye/Face Protection: Use safety glasses.

Skin Protection: Wear clean, body-covering clothing.

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Chlorinated polyethylene. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. Examples of acceptable glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Avoid gloves made of: Polyvinyl alcohol ("PVA").

Respiratory Protection: For most conditions, no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

Ingestion: Do not consume or store food in the work area. Wash hands after use.

Engineering Controls

Ventilation: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

9. Physical and Chemical Properties

Physical State	Dispersion
Color	White
Odor	Characteristic
Flash Point – Closed Cup	Not applicable water based product
Flammable Limits in Air	Lower: No test data available Upper: No test data available
Autoignition Temperature	Not applicable water based product
Vapor Pressure	17.5 mmHg @ 20 °C Literature (water)
Boiling Point (760 mmHg)	100 °C (212 °F) Literature (based on water)
Vapor Density (air=1)	0.6 Literature water vapor
Specific Gravity (H2O=1)	0.95 – 1.10 Estimated
Freezing Point	0 °C (32 °F) Literature (water)
Melting Point	0 °C (32 °F) Literature (water)
Solubility in Water (by weight)	Visual miscible with water in all proportions

Product Name: TechniSoil*

pH	4.5 – 5.5 Estimated
Dynamic Viscosity	<500 mPa.s Estimated

10. Stability and Reactivity

Stability/Instability

|| **Conditions to Avoid:** Can coagulate if frozen. The dry resin is combustible.

|| **Incompatible Materials:** Addition of chemicals, such as acids or multivalent metal salts, may cause coagulation.

Hazardous Polymerization

| | Will not occur.

Thermal Decomposition

| | Decomposition products depend upon temperature, air supply and the presence of other materials.

11. Toxicological Information

Acute Toxicity

Ingestion

| | For similar material(s): LD50, Rat > 2,000 mg/kg

Skin Absorption

| | For similar material(s): LD50, Rat > 2,000 mg/kg

12. Ecological Information

CHEMICAL FATE

Movement & Partitioning

|| No bioconcentration of the polymeric component is expected because of its high molecular weight.
|| Latex dispersions will color water a milky white.

Persistence and Degradability

| | The polymeric component is not expected to biodegrade.

ECOTOXICITY

|| Based largely or completely on information for similar material(s). Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 > 100 mg/L in the most sensitive species tested).

13. Disposal Considerations

DO NOT DUMP INTO ANY SEWERS OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. TECHNISOIL NORTH AMERICA, LLC HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN THE MSDS.

TechniSoil North America, LLC can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Telephone TechniSoil North America, LLC's Customer Information at 877.356.2250 for further details.

14. Transport Information

DOT Non-Bulk
NOT REGULATED

DOT Bulk
NOT REGULATED

IMDG
NOT REGULATED

ICAO/IATA
NOT REGULATED

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulation and rules relating to the transportation of the material.

15. Regulatory Information

OSHA Hazard Communication Standard

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	No
Delayed (Chronic) Health Hazard	No
Fire Hazard	No
Reactive Hazard	No
Sudden Release of Pressure Hazard	No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania (Worker and Community Right-to-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania (Worker and Community Right-to-Know): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

US, Toxic Substances Control Act

All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30

CEPA – Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16. Other Information

Recommended Uses and Restrictions

For industrial use. Used as a binder.

Legend

N/A	Not Available
W/W	Weight/Weight
OEL	Occupational Exposure Limit
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists, Inc.
WEEL	Workplace Environmental Exposure Level
HAZ_DES	Hazard Designation

TechniSoil North America, LLC *urges each customer or recipient of this MSDS to read carefully and consult appropriate entities, as necessary, to become aware of and understand the data contained in the MSDS and any hazards associated with the product.*

The information is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his/her activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific MSDSs, we are not and cannot be responsible for MSDSs obtained from any source other than ourselves. If you have obtained an MSDS from another source or if you are not sure that the MSDS you have is current, please contact us for the most current version.