Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication standard

29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form
Form Approved
OMB No. 1218-0072)

IDENTITY *(As Used on Label and List)* **PHYDURA**	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name:	**Emergency Telephone Number:**
Soil Technologies Corp.	641-472-3963
Address *(Number, City, Sate, and ZIP Code):*	**Telephone Number for Information:**
2103 185th St. Fairfield. Iowa 52556	641-472-3963
Date Prepared:	**Signature of Preparer** *(optional)*
2/11/10	

Section II – Hazard Ingredients/ Identity Information / Components

Hazardous Components (Specific Chemical Identity; Common Name(s)) *(optional)*	OSHA PEL	**ACGIH** TLV	**Other Limits** Recommended	%
None	None	None	None	
Components: Clove Oil, citric acid, malic acid, potassium oleate, lactose, water.				

Section III – Physical/Chemical Characteristics

Boiling Point: Not tested	**Specific Gravity (H_2O=1)**: 1.05	**Vapor Pressure (mm Hg):** N/A
Melting Point:	**Vapor Density (AIR=1)**:	**Evaporation Rate (Butyl Acetate =1):**
N/A	N/A	>1.0
Solubility in Water:	**Suspendabilty in water**:	**Appearance and Odor:**
Not soluble. Forms an emulsion.	N/A	Milky White/Clove odor

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used):Not known **Flammable Limits:** Not tested **LEL:** N/A **UEL:** N/A
Extinguish Media: Foam, Carbon Dioxide, or Dry Chemical extinguishers

Special Fire Fighting Procedures: Self contained breathing apparatus.

Unusual Fire and Explosion Hazard: None.
Hazardous Decomposition Products: Acid Vapors, Carbon Dioxide, Carbon Monoxide

Section V – Reactivity Data

Stability:	**Conditions to Avoid:**	**Incompatibility:***(Materials to Avoid)*
Reacts with organic and inorganic bases.	Contact with skin, eyes, or prolonged inhalation. Do not ingest product.	Bases and caustic compounds (Alkaline compounds)

Hazardous Decomposition or Byproducts:
None

Hazardous Polymerization:	May Occur	Will Not Occur	Conditions to Avoid
		X	None

Section VI – Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes

Health Hazard (Acute and Chronic): Contains acids that are extremely corrosive. Contact with this product may result in severe eye irritation. Contact with this product may cause severe skin irritation and/or chemical burns. Breathing vapors will cause significant respiratory irritation. Ingestion of this product could cause burns and destroy tissue in the mouth, throat, and digestive tract.

Carcinogenicity:	NTP?	IARC Monographs	OSHA Regulated?
None known	N/A	N/A	N/A

Signs and Symptoms of Exposure	Medical Conditions Generally Aggravated by Exposure
No data	No data

Emergency and First Aid Procedures: Ingestion – Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended. **Skin contact –** Immediately flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse and discard contaminated shoes. **Eye contact** – Immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. Remove contact lenses, immediately move individual away from exposure and into fresh air before flushing as recommended above. Call a physician immediately.

Section VII – Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Cover the contaminated surface with sodium bicarbonate or a soda ash/flaked lime mixture (50-50). Mix and add water if necessary to form a slurry. Scoop up slurry and wash site with soda ash solution. Proper mixing procedures are essential. Trained personnel should conduct this procedure. Untrained personnel should be removed from the spilled area.

Waste Disposal Method: A leaking bottle may be placed in a plastic bag and normal disposal procedures followed. Liquid samples may be absorbed using vermiculite or sand, and disposed of in the normal way.

Precautions to Be Taken in Handling and Storage: Avoid contact with eyes, skin, or clothing. Keep bottle/container tightly closed and store in a cool, dry place.

Section VIII – Control Measures

Respiratory Protection *(Specify Type):* Not usually necessary, but approved respirator can be used if desired.

Ventilation:	Special:	Mechanical (*General):*	Other:
Localized exhaust can be used to remove vapors.	N/A	N/A	None

Protective Gloves:
Wear Neoprene, Nitrile, or natural rubber gloves

Eye Protection:
Wear chemical goggles when handling the product and during application.

Other Protective Clothing or Equipment:
Wear long sleeved, shirt, long pants, socks, and shoes.

Section IX – Special Precautions

Precautions to be taken in Handling and Storing: Handle according to good safety procedures, avoiding unnecessary exposure. Keep container tightly closed when not in use. Store only in the original container in a cool, dry place.

The above information is believed to be corrected, but does not purport to be all inclusive. This data should be used only as a guide in handling this material. Phydura/Soil Tech shall not be held liable for any damage resulting from handling or from direct contact with this product.

*U.S.G.P.O.: 1986 – 491 – 529/45775