

Earthbind™ Material Safety Data Sheet

Quick Identifier: Emulsified Dust Suppressant

Address: 2606 N. Newark St. Portland, Oregon 97217

Manufacturers Name: EnviRoad LLC

Other Information Calls: 800-536-2650

Identity - Section I

<i>Trade Name and Synonyms:</i> Earthbind 100	NFPA Hazardous	0 - Least
<i>CAS Number:</i> Mixture	Identification	1 - Slight
<i>Chemical Name:</i> NA	<i>Health:</i> 1	2 - Moderate
	<i>Fire:</i> 0	3 - High
	<i>Reactivity:</i> 0	4 - Extreme

Composition Information on Ingredients - Section II

<i>Ingredients</i>		<i>%</i>	<i>OSHA PEL</i>	<i>ACGIH TLV</i>
<i>Petroleum Resin</i>	64742-16-1	40-60	NE	NE
<i>Stabilizer</i>	Proprietary	5-30	NE	NE
<i>Emulsifier</i>	Proprietary	< 6.0	NE	NE
<i>Water</i>	7732-18-5	Balance	NE	NE

Additional Comments: Though further detail on contents may be confidential, all pertinent hazards are addressed in this MSDS.

Physical & Chemical Characteristics - Section III

<i>Boiling Point</i>	100 C
<i>Vapor Pressure (mm Hg)</i>	NA
<i>Percent Volatile by Volume</i>	NA
<i>Solubility in Water</i>	Complete
<i>Specific Gravity (H2O=1.00)</i>	0.9 to 1.02
<i>Vapor Density (air@1)</i>	NA
<i>Evaporation Rate (H2O = 1)</i>	NA
<i>Reactivity in Water</i>	None
<i>Viscosity @ 122F CST</i>	100-800
<i>Appearance and Odor</i>	Dark Brown Liquid; Hydrocarbon and lignosulfonate odor
<i>Additional Comments</i>	Material is a hydrocarbon/water emulsion and will not combust until water is driven off.

Fire And Explosion Hazard Data - Section IV

<i>Flash Point</i>	NA
<i>Flammable Limits in Air</i>	(hydrocarbon/ water emulsion)

% by Volume

Extinguisher Media

Dry Chemical, CO₂, Halon, Water Spray, or standard foam

Fire Fighting Procedures

Move containers from fire area if possible. Cool fire-exposed containers with water from side until well after fire is out. Stay away from storage tank end for massive fire in storage area. Use unmanned hose holder or monitor. Use flooding amounts of water as a fog, as solid streams may be ineffective. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage vessel due to fire. Extinguish only if flow can be stopped. Water or foam may cause frothing. Avoid breathing toxic vapors and keep upwind.

Additional Comments

Material is a hydrocarbon/water emulsion and will not ignite until water is driven off.

Reactivity Data - Section V

Stability/Conditions to Avoid

Material is stable under normal temperature and pressure. Do not expose to prolong heating above 100C.

Incompatibility/Materials to Avoid

None

*Hazardous Polymerization/
Conditionsto Avoid*

None

Hazardous Byproducts of Decomposition

Thermal decomposition may release hazardous gases.

Health Hazard Data - Section VI

Route of Entry

Legend: A: Health Effect; B: Personal Protection; C: Emergency First Aid Procedures

Inhalation

- A. Avoid prolonged inhalation of vapors or mist. Product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions.
- B. Provide exhaust ventilation system to meet published exposure limits.
- C. Remove victim from exposure to fresh air immediately. If breathing has stopped, give artificial respiration. Keep victim warm and at rest. Treat symptomatically and supportively. Administration of oxygen should be performed by qualified personnel. Get medical attention immediately.

Skin

- A. Direct contact with hot fumes may cause slight skin irritation. Repeated or prolonged exposure to fumes may cause irritation, dermatitis, and acne-like lesions.
- B. Employee must wear appropriate protective impervious clothing, gloves, and equipment to prevent repeated or prolonged skin contact.
- C. If contact is not with hot materials, remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent, and large amounts of water until no evidence of material remains (15 to 20 minutes). Burns from contact with hot material should be treated like thermal burns.

Route of Entry

Legend: A: Health Effect; B: Personal Protection; C: Emergency First Aid Procedures

Ingestion

- A. May cause nausea, gastro-intestinal irritation, and vomiting.
- B. Do not induce vomiting.

- C. Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, lower head to prevent aspiration.
- Eyes*
- A. Contact with eyes may cause redness and irritation. Repeated or prolonged exposure to fumes may cause conjunctivitis.
- B. Employee must wear splash-proof or dust-resistant safety goggles or face shield.
- C. Wash eyes immediately with large amounts of water. Lift upper and lower lids until no evidence of material remains (15 to 20 minutes). Cover with sterile bandages. Get medical attention immediately.

Medical Conditions No adverse reactions expected at concentrations normally encountered.
Aggravated by Exposure

Safe Usage Information - Section VII

<i>Handling, Storage & Other Precautions</i>	This product is not classified as hazardous under DOT reg. Keep away from heat, sparks, and oxidizing agents. Keep container closed when not in use. Observe all Federal, State and Local regulations when handling, storing or disposing of this material.
<i>Action to be Taken in Case of Spill or Release (Including Disposal)</i>	Shut off area ignition sources. Stop leak if it can be done without risk. Use water spray to reduce vapors. For small spills, use absorbent material and place into container. Dike ahead of large spill for later disposal. Prohibit smoking in affected area. Isolate area and restrict entry.

Control Measures - Section VIII

- Ventilation Requirements* Provide exhaust ventilation system to meet published exposure limits.
- Work Hygiene Practices*
- Respirator* Selection of respiratory protection must be based upon the airborne level of suspected contaminant. Levels found in the work place must not exceed the working limit of the respirator utilized.
- Dermal* Workers must wear appropriate protective clothing, gloves, and equipment to prevent repeated or prolonged contact with skin.
- Eyes* Proper eye/face protection must be utilized to protect against splashes and vapors.
- Carcinogenicity* Not listed as a carcinogen by IARC, TSCA, NTP, OSHA or ACGIH

Transportation - Section IX

<i>D.O.T. Proper Shipping Name (49 CFR 172.101)</i>	Non-hazardous Emulsion
<i>D.O.T. Hazard Class (49 CFR 172.101)</i>	NA
<i>UN / NA Code (49 CFR 172.101)</i>	NA
<i>Packaging Group (49 CFR 172.101)</i>	NA
<i>Bill Of Lading Description (49 CFR 172.101)</i>	Non-hazardous Emulsion
<i>D.O.T. Labels Required (49 CFR 172.101)</i>	NA
<i>D.O.T. Placards Required (49 CFR 172.101)</i>	NA

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