

TECHNICAL INFORMATION SHEET

PUDDLE SEAL

PRODUCT DEFINITION: Non-Hazardous multi-purpose pit liner and pond leak sealer.

CHEMISTRY: Proprietary surfactant/polymer formulation, fresh and brine water soluble.

USAGE: PUDDLE SEAL is designed in laboratory testing to be broadcast at a rate of 1 to 2 pounds of PUDDLE SEAL per 25 square feet of prepared pit and/or pond area. Actual usage volumes of PUDDLE SEAL will vary depending on geology and preparation of the site. PUDDLE SEAL is best utilized when pit or pond bottom has been tilled with all vegetation, rocks and boulders removed. At least a 6" deep tilled soil and/or caliche surface on the bottom and sides of the pit or pond is strongly recommended. PUDDLE SEAL is a granular product as applied. It is recommended that the pit or pond area be water wet as soon as possible after application to avoid loss of product due to wind or other types of erosion.

PRODUCT ADVANTAGES:

- 1) PUDDLE SEAL is an environmentally friendly formulation that can be utilized in almost any circumstances.**
- 2) PUDDLE SEAL is non-toxic and once applied and the pit or pond is filled with water, is not harmful to aquatic and/or livestock.**
- 3) PUDDLE SEAL requires no special Department of Transportation (DOT) transportation documentation or on-site placarding or special personnel protective clothing or gear.**

TIERRA INDUSTRIES, INC.
MATERIAL SAFETY DATA SHEET
FOR PUDDLE SEAL
Effective Date: January 1, 2010

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PUDDLE SEAL
DESCRIPTION: Surfactant/Polymer blend
CAS NUMBER: N/A (MIXTURE)

COMPANY NAME:
Tierra Industries, Inc.
3535 W. 16th
Odessa, Texas 79763

NFPA
Health 0
Fire 0
Reactivity 0
0=Least to 4=Extreme

EMERGENCY NUMBERS
1-866-431-6913

SECTION 2 - COMPOSITION/HAZARDOUS INGREDIENTS

| CHEMICAL NAME | CAS NUMBER | OSHA PEL | ACGIH TLV |
|---------------|--------------|------------------------|-------------------------|
| Trade Secret | Trade Secret | 2mg/m ³ * C | 2 mg/m ³ * C |

* Total Dust
C = Ceiling Limit

OSHA PEL's obtained from 29 CFR 1910.1000. ACGIH TLV's obtained from the most recent issue of Threshold Limit Values for Chemical Substances and Physical Agents.

SECTION 3 - HAZARDS IDENTIFICATIONS

Emergency Overview: White solid. Product presents no unusual hazard if involved in a fire; presents little or no hazard if spilled, but is slippery, so caution is advised to avoid falling.

All information stated herein concerning health effects is for the non-diluted form of PUDDLE SEAL.

POTENTIAL HEALTH EFFECTS:

SKIN CONTACT: Product may cause irritation and rash with long exposure.

EYE CONTACT: Product may cause irritation and possible damage.

INHALATION: Mists may be corrosive to mucous membranes and respiratory tract.

INGESTION: May be corrosive to mucous membranes or gastrointestinal tract.

CARCINOGENICITY: Nothing contained in this product is found on the OSHA, NTP and IARC lists.

SECTION 4 - FIRST AID MEASURES

SKIN CONTACT: Wash exposed areas with water for 15 to 20 minutes. If irritation occurs, seek medical attention.

EYE CONTACT: If exposed, flush eye for 15 to 20 minutes with copious amounts of water and SEEK MEDICAL ATTENTION IMMEDIATELY.

INHALATION: If irritation occurs, SEEK MEDICAL ATTENTION IMMEDIATELY.

INGESTION: If ingested, dilute by drinking large quantities of water or milk. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IMMEDIATELY.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: > 200F (Pensky-Martens Closed Tester Method)

FLAMMABLE LIMITS: LEL: None UEL: None

EXTINGUISHING MATERIALS: Non-combustible. Use extinguishing material appropriate to surrounding fire conditions.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

FIRE FIGHTING EQUIPMENT: Firefighters are to wear full protective equipment.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Product is slippery when spilled onto the floor. To clean up spill, wear alkali resistant slicker suit, rubber gloves and rubber boots. Apply absorbent material such as vermiculite to the spill area to contain and absorb the spill. Scoop material into pail or drum. Thoroughly wash area with water. Dispose of material in compliance with Federal, State and Local regulations.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Avoid contact with eyes and skin. Avoid prolonged or repeated contact with skin. Ensure that containers are properly secured before moving.

STORAGE: Keep container closed. Store in room temperature to avoid freezing. The appearance of fine sediment can occur after a period of time.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Control storage area temperature to avoid subjecting product to freezing temperatures.

EYE PROTECTION: Wear safety glasses with side shields or safety goggles when working with product.

SKIN PROTECTION: Wear coveralls, rubber gloves and rubber boots.

RESPIRATORY PROTECTION: When product is used properly, respiratory protection should not be required.

SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

APPEARANCE: White solid

VAPOR DENSITY: NA

ODOR: Slight

VAPOR PRESSURE: <0.1 @ 100°F

PHYSICAL STATE: Solid

BOILING POINT: 210°F

pH: 7.0 +/-

(MELTING) FREEZING POINT: NA

SOLUBILITY IN WATER: Miscible

SPECIFIC GRAVITY: 1.25 +/-

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: None established

DECOMPOSITION PRODUCTS: When heated to 3000°F., product decomposes to original constituents.

HAZARDOUS POLYMERIZATION: None established.

TRANSPORTATION

DOT HAZARD CLASSIFICATION: Not D.O.T. Regulated

IMPORTANT NOTICE

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