

MATERIAL SAFETY DATA SHEET**SECTION I****PRODUCT IDENTIFICATION**

PRODUCT NAME: LactOil[®] Soy Microemulsion
PRODUCT USE: In-situ Bioremediation
SUPPLIER: JRW Bioremediation, LLC
 14321 W. 96th Terrace
 Lenexa, KS 66215
 913-438-5544
EMERGENCY TELEPHONE: 800-779-5545 x 116 (Mon-Fri 9am-5pm CST)
 913-961-6644 (afterhours)
DATE REVISED: 06-27-2011

SECTION II**COMPOSITION/INFORMATION ON INGREDIENTS**

Name	CAS #	% by Weight
LactOil [®]	Proprietary blend	100%

SECTION III**PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling point:	Not applicable
Vapor pressure (Mg Hg):	Not determined
Vapor density (air = 1):	Not determined
Solubility in water:	Not determined
Appearance and odor:	Brown to yellow with bland odor
Specific gravity (H ₂ O = 1):	Not determined
Melting point:	Not determined
Evaporation rate:	Not determined
Density	1.05
pH:	7.5
Molecular Weight:	Not determined
Physical State:	Liquid

SECTION IV**FIRE AND EXPLOSION HAZARD DATA**

Closed cup Flash point:	>75C vis Pensky-Martens Closed Cup Test (ASTM std D93)
Open cup Flash point:	Not determined
Auto Ignition:	Not determined
Fire Point:	Not determined
Flammable limits:	Not determined
LEL:	Not determined
UEL:	Not determined
Extinguishing media:	Dry chemical, foam, carbon dioxide, or water fog.
Special Fire Fighting procedures:	Wear full protective clothing and positive pressure breathing apparatus

SECTION V**REACTIVITY DATA**

Stability:	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>
Conditions to avoid:	Hydrolysis may occur in the presence of strong acids

or bases.

Incompatibility (materials to avoid): May react with strong oxidizing agents.

Hazardous decomposition or byproducts: None known

SECTION VI HEALTH HAZARD DATA Based on concentration as sold

Route/s of Entry:

Inhalation: Inhalation of vapors or mist may cause mild irritation of respiratory system. If symptoms are experienced, remove source of contamination or move to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen.

Skin contact: In case of contact with skin, immediately wash with plenty of soap and water while removing contaminated clothing. Seek medical attention if skin irritation develops or persists.

Eye contact: In case of contact with eyes, immediately flush eyes with water for at least 15 minutes, lifting eyelids to facilitate irrigation. Get medical attention if necessary.

Ingestion: If swallowed, get medical attention.

Carcinogenicity: Not determined.

Signs and symptoms of exposure: Slight irritation to skin, eyes, respiratory system, headache, nausea, drowsiness. May cause abdominal discomfort, nausea, and diarrhea.

Medical conditions aggravated by exposure: Soybean derived product. Avoid if sensitive to soy products.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: Contain spill with absorbant materials such as clay or soil and shovel and place material in drum for disposal. Surfaces may become slippery after spillage. Dispose of according to all local, state, and federal regulations at an approved waste treatment facility.

Precautions to be taken in handling and storage: Use personal protective equipment. Prevent spills, contamination, and leakage. Keep container tightly closed. Keep in properly labeled containers. Store in a cool, dry area. Avoid freezing or excessive heat.

Other precautions: Prevent material from entering waterways.

SECTION VIII CONTROL MEASURES

Respiratory protection (specify type): Respiratory protection may be required if material is used in poorly ventilated areas or if material is sprayed or heated. OSHA respiratory regulations found in 29 CFR 1910.134. Use an NIOSH approved respirator when necessary.

Ventilation: General ventilation and local exhaust are recommended.

Protective gloves: Chemical resistant gloves recommended.

Eye protection: Chemical goggles recommended.

Other protective clothing or equipment: Unnecessary if other control measures are used.

Hygiene practices: Avoid contact with skin. When using, do not eat,



drink, or smoke. Remove and wash contaminated clothing before re-use.

SECTION IX

DOT hazard class:
Labeling:
Proper Shipping Name:
NMFC#:
Class

DOT INFORMATION

Not Applicable, non-regulated
Not Applicable
LactOil[®] Soy Microemulsion
144920
65