



60% CUSTOM SLOW RELEASE EMULSIFIED VEGETABLE OIL SUBSTRATE (SRS[®]-C) SAFETY DATA SHEET

1. Product Identification

Synonyms:	60% Custom Slow Release Substrate (SRS [®] -C)
	Emulsified Vegetable Oil (EVO)
Recommended Use:	Treatment of groundwater contaminated with chlorinated
	solvents and other anaerobically degradable compounds.
Supplier:	Terra Systems, Inc.
	130 Hickman Road, Suite 1
	Claymont, Delaware 19703
	Telephone (302) 798-9553
	Fax (302) 798-9554
	www.terrasystems.net

2. Hazards Identification

Health Rating:1 - SlightFlammability Rating:1 - SlightReactivity Rating:1 - SlightContact Rating:1 - SlightProtective Equipment:Goggles; Proper GlovesStorage Color Code:Green (General Storage)Potential Health EffectsNot expected to be a health hazard. If heated, may produce vapors or mists that irritate the mucous membranes and cause irritation, dizziness, and nausea. Remove to fresh air.Ingestion:Not expected to be a health hazard via ingestion. Large doses may produce abdominal spasms, diarrhea.Skin Contact:No adverse effects expected. May cause irritation or sensitization in sensitive individuals.Eye Contact:May cause mild irritation, possible reddening.Kon information found.No information found.	Emergency Overview	
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	Chronic Exposure:	No information found.
Conditions: No information found	Aggravation of Pre-existing	
	Conditions:	No information found.





3. Composition/Information on Ingredients

Ingredient	Synonyms	CAS #	Percent	Hazardous
Soy bean oil	Soya oil	8001-22-7	60%	No
Emulsifiers, lecithin, and proprietary nutrient package containing nitrogen, phosphorus and vitamin B ₁₂		Mixture	5 – 15%	No
Sodium lactate	2- hydroxpropionic acid sodium salt	72-17-3	<5%	Yes
Water		7732-18-5	20 - 30%	No

The emulsifiers, lecithin, and nutrient package mixture is a trade secret and consists of ingredients of unknown acute toxicity.

4. First Aid Measures

Inhalation:	Not expected to require first aid measures. Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion:	If large amounts were swallowed, give water to drink and get medical advice.
Skin Contact:	Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

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rd. Closed containers
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Water spray may be
ighters and cool closed
sed.
e clothing and NIOSH-
ratus with full face
or other positive





6. Accidental Release Measures

Clean-up personnel may require protective clothing. Absorb in sand, paper towels, "Oil Dry", or other inert material. Scoop up and containerize for disposal. Flush trace residues to sewer with soap and water. Containerized waste may be sent to an approved waste disposal facility.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material are not hazardous when empty since they do vapors or harmful substances; observe all warnings and precautions listed for the product. Do not store above 49 C (120 F). Keep container tightly closed and upright when not in use to prevent leakage.

8. Exposure Controls/Personal Protection

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Airborne Exposure Limits:	None established.
Ventilation System:	Not expected to require any special ventilation.
Personal Respirators (NIOSH	
Approved):	Not expected to require personal respirator usage.
Skin Protection:	Wear protective gloves and clean body-covering clothing.
Eye Protection:	Use chemical safety goggles and/or a full face shield where
	splashing is possible. Provide readily accessible eye wash
	stations and safety showers.
Slips, Trips, and Falls:	Material is slippery when spilled. Clean up with sand, paper
	towels, "Oil Dry", or other inert material.

9. Physical and Chemical Properties

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Appearance:	White liquid.
Odor:	Vegetable oil.
Solubility:	Miscible in water.
Specific Gravity (water=1):	0.95-0.98. 8.09 pounds per gallon.
pH:	6-7 (40% aqueous solution)
% Volatiles by volume	
@ 21C (70F):	Negligible.
Boiling Point:	\geq 100C (\geq 212F)
Melting Point:	No information found.
Flash Point (F):	No information found.
Autoignition Temperature:	No information found.
Decomposition Temperature:	No information found.
Vapor Density (Air=1):	No information found.
Vapor Pressure (mm Hg):	< 1.0 @ 20C (68F).
Evaporation Rate (BuAc=1):	No information found.
Viscosity @23 C (73 F):	213 centipoises (1.2 centipoises diluted 1:10)
Partition Coefficient	
(octanol/water):	No information found.









10. Stability and Reactivity

Stability:	Stable under ordinary conditions of use and storage.
Reactivity:	Not reactive under ordinary conditions.
Hazardous Decomposition	
Products:	Carbon dioxide and carbon monoxide may form when
	heated to decomposition.
Hazardous Polymerization:	Will not occur.
Incompatibilities:	Strong oxidizers, acids.
Conditions to Avoid:	Incompatibles. Isolate from heat and open flame.

11. Toxicological Information

Soybean Oil:	No information found on toxicology. It is not a carcinogen
	listed by IARC, NTP, NIOSH, OSHA, or ACGIH.
Emulsifier/Nutrient Mixture:	No information found on toxicology. It is not a carcinogen
	listed by IARC, NTP, NIOSH, OSHA, or ACGIH.
Sodium Lactate:	Oral rat LD50: 2,000 mg/kg. 100 mg caused mild irritation to
	rabbit eye in Draize test. This compound is not listed as a
	carcinogen by IARC, NRP, NIOSH, OSHA, or ACGIM.
SRS-SD:	The toxicity of the mixture has not been measured.
Sodium Lactate:	No information found on toxicology. It is not a carcinogen listed by IARC, NTP, NIOSH, OSHA, or ACGIH. Oral rat LD50: 2,000 mg/kg. 100 mg caused mild irritation to rabbit eye in Draize test. This compound is not listed as a carcinogen by IARC, NRP, NIOSH, OSHA, or ACGIM.

12. Ecological Information

Environmental Fate:	No information found.
Environmental Toxicity:	No information found.
Degradability:	This product is completely biodegradable under both aerobic
	and anaerobic conditions.
Soil Mobility:	This compound will move with groundwater until the adsorbed
	onto the soil. Degradation products may be mobile.
Bioaccumulation Potential:	No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information





OSHA STATUS: This product is not hazardous under the criteria of the Federal OSHA hazard Communication Standard 29 CFR 1910.1200. However, thermal processing and decomposition fumes from this product may be hazardous as noted in Section 10.

TSCA STATUS: No component of this product is listed on the TSCA inventory.

CERCLA (Comprehensive Response Compensation, and Liability Act): Not reportable.

SARA TITLE III (Superfund Amendments and Reauthorization Act) Section 312 Extremely Hazardous Substances: None Section 311/312 Hazard Categories: Non-hazardous Under Section 311/312 Section 313 Toxic Chemicals: None

RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California safe Drinking Water and Toxic Enforcement Act of 1986. The product contains no chemicals known to the State of California to cause cancer.

16. Other Information

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NFPA Ratings:	Health: 1 Flammability: 1 Reactivity: 1
Date Prepared:	June 26, 2014
Revision Information:	SDS Section(s) changed since last revision of document
	include: None.
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Prepared by: Phone Number: Terra Systems, Inc. (302) 798-9553 (U.S.A.)