

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.

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2. Hazards Identification

Emergency Overview

Caution: May cause eye irritation.

Health Rating:1 - SlightFlammability Rating:1 - SlightReactivity Rating:1 - SlightContact Rating:1 - Slight

Protective Equipment: Goggles; Proper Gloves **Storage Color Code:** Green (General Storage)

Potential Health Effects

Inhalation: Not 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.

Chronic Exposure: 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

Fire: Flash point: >200 C (>392 F). Not considered to be a fire

hazard. Isolate from heat and open flame.

Explosion: Not considered to be an explosion hazard. Closed containers

may explode if exposed to extreme heat.

Fire Extinguishing Media: Dry chemical, foam, or carbon dioxide. Water spray may be

ineffective on fire, but can protect fire-fighters and cool closed

containers. Use fog nozzles if water is used.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-

approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive

pressure mode.



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

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. **Eve 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

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. > 100C (> 212F)**Boiling Point:** No information found. **Melting Point:** 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.

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

NFPA Ratings: Health: **1** Flammability: **1** Reactivity: **1**

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Revision Information: SDS Section(s) changed since last revision of document

include: None.

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