

Safety Data Sheet

Section 1 – Chemical Products and Company Identification

Product Names: BioSolve® Activator™

Product Uses: Remediation of hydrocarbon (oil, fuel, petrochemical) contamination, including: in-situ soil remediation, aerobic bioremediation, suppression of VOCs, equipment decontamination and surface washing.

Manufacturer: The BioSolve Company
24 Victory Lane
Dracut, MA 01826 USA

Contact Information: +1 (800) 225-3909 US, Canada, Mexico and Puerto Rico
+1 (781) 482-7900 All other locations

Section 2 – Hazards Identification

Health Hazards: Eye Contact: Causes transient eye irritation
 Skin Contact: May cause mild, transient irritation
 Ingestion: May be harmful if swallowed; can cause gastrointestinal irritation, nausea, vomiting and/or diarrhea

Hazard Mitigation: Wear protective gloves and eye/face protection
Avoid prolonged breathing of spray

Environmental Hazards: Moderately toxic to aquatic life. Avoid discharge to storm drains and waterways

GHS Classification: Toxic to aquatic life, Acute Category 2

Section 3 – Composition/Information on Ingredients

Proprietary formulation with nonionic surfactants (26% active ingredients in water)

BioSolve products contain no caustic, d-limonene or hydrocarbon solvents.

BioSolve products do not contain any hazardous ingredients as defined by CERCLA, Massachusetts Right to Know Law and California Prop 65. All ingredients are TSCA compliant.

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Section 4 – First Aid Measures

- Eyes:** Immediately flush eyes with water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Seek medical attention for lasting irritation.
- Skin:** Rinse exposed area and wash with mild soap and water for several minutes. Seek medical attention if irritation develops.
- Ingestion:** Seek medical attention in the event of serious or persistent abdominal discomfort, nausea or diarrhea.
- Inhalation:** Inhalation of concentrated vapors resulting from spraying or heating in confined or poorly ventilated areas may cause irritation of nose and throat. Remove person to fresh air and seek medical attention if irritation persists.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media: None required; BioSolve products are non-flammable

Special Protective Equipment for Firefighters: None necessary

Unusual Fire or Explosive Hazards: None

Section 6 – Accidental Release Measures

In case of accidental release, breakage or leakage: Eliminate or contain source with inert material, such as sand, earth, absorbent pads, etc. Transfer liquid to suitable containers for recovery, re-use or disposal. Wipe up or mop up using water. Hard surfaces (e.g., floors, driveways) may be slippery; use care to avoid falling.

Rinse area with water. Avoid flow of run-off to surface waters. Always check with local regulations before discharging effluent to storm drains or sewers.

Section 7 – Handling and Storage

- Handling:** Minimize periods of exposure to extreme temperatures. Keep from freezing. If frozen, separation may occur; thaw and stir thoroughly prior to use. Freezing will not affect product performance.
- Precautions:** Chemical resistant gloves and eye protection are recommended while mixing and using.
- Incompatibilities:** Avoid contact with strong acids or strong oxidants.
- Storage:** Recommended storage temperature: 35° – 120° F (1° – 48° C).
- Shelf Life:** If unopened, more than 10 years.

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Section 8 – Exposure Controls / Personal Protection

- Eyes Protection:** Safety glasses; chemical goggles or face shield recommended when spraying to protect against backsplash and drift.
- Skin Protection:** Rubber or latex gloves recommended.
- Respiratory Protection:** None required, except if application results in significant misting of product. If so, use of an approved air purifying respirator is recommended.
- Engineering Controls:** For indoor use or for use in a confined space, normal ventilation is generally satisfactory.

Section 9 – Physical and Chemical Properties

- Appearance:** Deep blue liquid (or clear liquid if undyed)
- Odor:** Mild “detergent” odor
- Concentration:** ~26% active ingredients as sold

Boiling Point	240°F/115°C	Vapor Pressure mm/Hg	Not available
Melting/Freezing Point	28°F/-2°C	Vapor Density (Air=1)	Not available
Flash Point	>200°C	Surface Tension*	22 Dyne/cm @25°C
Flammability Limits	Not applicable	Viscosity (concentrate)	12 centipoise
Reactivity with Water	None	Viscosity (5% solution)	1.2 centipoise
Evaporation Rate	Not determined	Solubility in Water	100%
Specific Gravity	1.0 gms/cc	VOC Content	Not determined
	8.34 lbs/U.S. gal	pH	7

*5% solution

Section 10 – Stability and Reactivity

- Chemical Stability:** Stable; will not decompose if used according to manufacturer’s directions.
- Conditions to Avoid:** Prolonged exposure to heat may cause product degradation. Freezing should also be avoided as discussed in Section 7.
- Incompatible Materials:** Normally unreactive. Avoid strong alkalis, strong acids, strong oxidizing agents and materials with reactive hydroxyl compounds. These materials could damage the product and reduce its effectiveness during application.
- Hazardous Decomposition Products:** None are known.
- Hazardous Polymerization:** Will not occur.

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Section 11 – Toxicological Information

- Overview:** No adverse acute or chronic health effects expected if product used in accordance with manufacturer's directions.
- Carcinogenicity:** No ingredient has been shown to cause cancer in laboratory animals.
- Specific Organ Toxicity:** None are known.

Section 12 – Ecological Considerations

- Persistence and Degradability:** The total of the organic components contained in this product is classified as *readily biodegradable* (OECD-301B).
- Bioaccumulation Potential:** The bioaccumulation factor in fish has been estimated to be low
- Mobility:** No data available
- Aquatic Toxicity:** BioSolve Activator (100%) is “slightly toxic” to aquatic organisms according to US EPA.
Menidia beryllina (96-Hr): LC50 = 34.2 ppm
Mysidopsis bahia (48-Hr): LC50 = 34.1 ppm
Note: Results above are for concentrate. Typical dilution for most applications is 1% - 8%.

Section 13 - Disposal

DO NOT DUMP INTO STORM DRAINS OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. As manufactured, BioSolve products do not meet the definition of a hazardous waste. Small quantities of unused and uncontaminated product may be discharged to a qualified wastewater treatment facility. Always obtain approval from local and Federal regulatory agencies prior to discarding this product into public sewers.

As your supplier, we have no control over your handling and use of this product. However, the intended use of this product as a remediation and/or surface washing agent may produce wastewater containing emulsified or dispersed hydrocarbons that may be classified as a hazardous waste and should be treated and disposed of accordingly.

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Section 14 – Transportation Information

USDOT Freight Class 55 (Liquid Cleaning Compound, Non-Hazardous)
This product is not regulated by USDOT or Canadian TDG when shipped domestically by land.

North American Industry Classification System (NAICS) # 325613

U.S. ITC, Harmonized Tariff Schedule B Classification: 3402.13.50.00

Section 15 – Regulatory Information

This product is considered non-hazardous as defined by CERCLA, according to OSHA, Massachusetts Right to Know Law and California Prop 65.

Toxic Substances Control Act: All components of this product are on the TSCA inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

CEPA – Domestic Substances List: All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or not required to be listed.

Canadian CPR Compliance: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR

WHMIS Classification: D2B Eye or skin irritant

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with Federal, state or provincial and local laws.

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Section 16 – Other Information

HMIS Rating

Health Hazard:	1 (Eye/Skin Irritant)
Fire Hazard:	0
Reactivity:	0
Personal Protective Equipment:	Rubber gloves, safety glasses or face shield

NFPA Rating

Health:	1 (Eye/Skin Irritant)
Flammability:	0
Reactivity:	0
Other Hazard:	None

SDS Effective Date: January 1, 2018

The information contained herein is accurate to the best of our knowledge. The BioSolve Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or application or in combination with other substances.

For more information, visit: www.biosolve.com