

## Safety Data Sheet

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### Section 1 – Chemical Products and Company Identification

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**Product Names:** BioSolve® Hydrovent™

**Product Uses:** Accelerates aerobic bioremediation of soil contaminated with petroleum products in ex-situ (landfarming) applications

**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

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### Section 2 – Hazards Identification

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**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  
Respiration: Ammonia vapor may be present in original packaging; open only in well-ventilated areas

**Hazard Mitigation:** Wear protective gloves and eye/face protection  
Avoid breathing of vapor or spray

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

**GHS Classification:** Toxic to aquatic life, Acute Category 2

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### Section 3 – Composition/Information on Ingredients

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Product Name	CAS No.	% by weight
Urea	57-13-6	17%
Monoammonium phosphate	7722-76-1	7%
Formulation with nonionic surfactants	(proprietary)	6%

BioSolve Hydrovent does not contain any microbiological cultures.

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### Section 4 – First Aid Measures

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- 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 mild ammonia 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.

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### Section 5 – Fire Fighting Measures

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**Suitable Extinguishing Media:** None required; BioSolve Hydrovent is non-flammable

**Special Protective Equipment for Firefighters:** None necessary

**Unusual Fire or Explosive Hazards:** None

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### Section 6 – Accidental Release Measures

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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.

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### Section 7 – Handling and Storage

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- 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° – 90° F (1° – 30° C).
- Shelf Life:** If unopened, 1 year

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### Section 8 – Exposure Controls / Personal Protection

- Eyes Protection:** Safety glasses; chemical goggles or face shield recommended when mixing or spraying to protect against backsplash and drift.
- Skin Protection:** Rubber or latex gloves recommended.
- Respiratory Protection:** Generally, not required. If application results in significant misting of product or if ammonia is detected, use of an approved air purifying respirator is recommended.
- Engineering Controls:** Not recommended for indoor or confined space use. If must 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 ammonia odor may be present
- Concentration:** ~30% active ingredients as sold

<b>Boiling Point</b>	240°F/115°C	<b>Vapor Pressure mm/Hg</b>	Not available
<b>Melting/Freezing Point</b>	28°F/-2°C	<b>Vapor Density (Air=1)</b>	Not available
<b>Flash Point</b>	>200°C	<b>Surface Tension</b>	Not available
<b>Flammability Limits</b>	Not applicable	<b>Viscosity (concentrate)</b>	Not available
<b>Reactivity with Water</b>	None	<b>Viscosity (5% solution)</b>	Not available
<b>Evaporation Rate</b>	Not determined	<b>Solubility in Water</b>	100%
<b>Specific Gravity</b>	1.2 gms/cc	<b>VOC Content</b>	Not determined
	10 lbs/U.S. gal	<b>pH</b>	9

### Section 10 – Stability and Reactivity

- Chemical Stability:** Over extended storage times, product degradation may occur, producing ammonia vapors.
- Conditions to Avoid:** Prolonged exposure to heat will cause product degradation, producing ammonia. 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:** Ammonia may be present in original package when stored at elevated temperatures over several months.
- Hazardous Polymerization:** Will not occur.

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### Section 11 – Toxicological Information

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- 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.

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### Section 12 – Ecological Considerations

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- 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 Hydrovent (100%) is “slightly toxic” to aquatic organisms according to US EPA.

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### Section 13 - Disposal

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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 Hydrovent does 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 bioremediation 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

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USDOT Freight Class 55 (Blended fertilizer mixture)

This product is not regulated by USDOT or Canadian TDG when shipped domestically by land.

North American Industry Classification System (NAICS) # 325314

U.S. ITC, Harmonized Tariff Schedule B Classification: 3905.59.00.00

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### Section 15 – Regulatory Information

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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

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**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

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For more information, visit: [www.biosolve.com](http://www.biosolve.com)