

SAFETY DATA SHEET (SDS)

Bio Solutions 38™

Bio Solutions 38™
SDS Revision 1
Revision Date 9/26/18

1. COMPANY AND PRODUCTION INFORMATION

Product Name: Bio Solutions 38™

Description: Liquid bacterial culture utilize to degrade organic contaminants and neutralize malodor in wastewater.

Company: Bob J. Johnson & Associates, Inc.
16420 West Hardy Road, Suite 100
Houston, Texas 77060

Telephone: 281-873-5555

Emergency Telephone: 281-873-5555

2. HAZARDS IDENTIFICATION

No hazardous ingredients.

NFPA Ratings:

Health Hazard	1
Fire Hazard	0
Reactivity	0

Special Hazard: None

Ingestion: Ingestion may cause vomiting and diarrhea

Skin Contact: Mild skin irritant.

Eye Contact: Moderate irritant.

Inhalation: May cause mild irritation to mucous membranes, nose, and throat.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a liquid solution containing naturally-occurring viable bacterial cultures. The species of bacteria are non-pathogenic and non-hazardous.

HAZARDOUS INGREDIENTS

<u>Name</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TWA</u>	<u>% BY WEIGHT</u>
This product does not contain known hazardous materials in reportable levels as defined by OSHA Hazard Communication Standard 29 CFR 1910.1200.				

4. FIRST-AID MEASURES

Ingestion: Rinse mouth/throat with water. Dilute by drinking water. Do not induce vomiting.

Skin Contact: Wash skin thoroughly with soap and water. Remove and wash clothing.

Eye Contact: Rinse immediately with water for 15 minutes.

Inhalation: Remove to fresh air.

Seek medical attention if irritation or any other symptom persists.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Product does not support combustion. Use water, foam, carbon dioxide or dry chemical for surrounding fire.

Protective Equipment: Wear suitable respiratory equipment when necessary.

Unusual Fire/Explosion Hazard: None.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear disposable gloves, eye protection and respiratory mask.
Environmental Precautions:	Safely contain further spillage. Accidental releases do not impose environmental risks.
Clean-up Methods:	Mop up/Rinse with soap and water. Disinfect; avoid direct contact with skin, inhalation, and/or ingestion of liquid. May be sewered; compatible with all biological treatment methods. No special disposal method. Comply with all Federal, State and/or Local disposal regulations.

7. HANDLING AND STORAGE

Handling:	Avoid inhalation, contact with eyes/skin.
Storage:	Keep in cool, dry well-ventilated area with labeled containers tightly closed. Freezing and temperatures above 113°F will inactivate the bacterial cultures. Keep away from children, food, and drinking water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	None known.
Engineering Measures:	Provide adequate ventilation in working area.
Respiratory Protection:	Mask in unventilated areas.
Hand Protection:	Wash hands after use. Disposable gloves recommended.
Eye Protection:	Wear safety glasses or goggles.
Protective Equipment:	Wash any contaminated clothing before re-use. Overalls and boots recommended.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Turbid, amber-colored liquid. Musty odor.
pH:	6-9
Boiling Point:	Similar to water.
Melting Point:	Similar to water.
Flash Point:	Not applicable
Flammable Limits:	Non-flammable
Auto-Ignition Temperature:	Not applicable
Explosive Limits:	Not applicable
Oxidizing Properties	None
Vapor Pressure:	Similar to water.
Relative Density:	1.04
Water Solubility:	Not completely soluble.
Solubility in Solvent:	Not applicable
Partition Coefficient:	Not applicable
Viscosity:	Similar to water.
Vapor Density:	Similar to water.
Conductivity:	Same as water.

10. STABILITY AND REACTIVITY

Stability:	Stable up to 6 months under normal storage and handling conditions.
Conditions to avoid:	Accumulation of product in enclosed spaces and generation of mist.
Incompatibilities:	Avoid strong oxidizing chemicals, temperatures below 33°F and above 113°F and pH below 6 and above 9 to maintain viability of the bacteria.
Hazardous Decomposition Products:	Possible oxides of carbon and sulfur.
Hazardous Polymerization:	Will not occur.

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11. TOXICOLOGICAL INFORMATION

Toxicological effects: Ingestion will cause irritation to the gastrointestinal tract and may result in nausea and diarrhea. May cause irritation to eyes, skin, and mucous membranes. May cause irritation from allergic reaction, especially to people that have a history of allergic reaction.

12. ECOLOGICAL INFORMATION

Eco-toxicity: This product is not expected to be dangerous to the environment with respect to mobility, persistency, and biodegradability, bio-accumulative potential, aquatic toxicity and other data related to eco-toxicity.

13. DISPOSAL CONSIDERATIONS

General Information: Dispose of in compliance with Federal, State and/or Local authority regulations.

14. TRANSPORTATION INFORMATION

NMFC: Class 60

Further Information: This product is classified as non-hazardous liquid for transport.

15. REGULATORY INFORMATION

Users are advised to consult Federal, State, and/or Local authority regulations for any additional information governing this product.

16. OTHER INFORMATION

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of this product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process.