



AquaClean ACF-SR Soil Remediation

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 01/01/2016

Supersedes: 01/01/2014

Version: 3.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Identifier: AquaClean ACF-SR Soil Remediation

Product form: Aqueous suspension of beneficial bacteria

Substance name: Natural Probiotic

CAS No.: 68920-42-3

Formula: N/A

Synonyms: Beneficial Bacteria, Probiotic

Intended Use of the Product

Use of the substance/mixture: Applied directly to soil or as foliar spray for optimizing soil conditions for crop yield.

Name, Address, and Telephone of the Responsible Party

BluePlanet Labs
15752 Industrial Parkway
Cleveland, OH 44135
216-472-3030

Emergency telephone number

Emergency number : 216-472-3030

SECTION 2: Hazards identification

Classification of the substance / mixture

GHS-US classification : N/A

Label elements

GHS-US

labeling

Hazard pictograms (GHS-US) : N/A

Signal word (GHS-US) : N/A

Hazard statements (GHS-US) : N/A

Precautionary statements (GHS-US) : N/A

Other hazards

No additional information available,

Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

Substances

Name	Product Identifier	%	GHS-US classification
Beneficial Bacteria, non-toxic, non-pathogenic, non-GMO (listed individually in the 5 rows below)	68920-42-3	< 3.5%	N/A Non Hazardous
<i>Bacillus licheniformis</i>	ATCC 12713	> 0.5%	N/A Non Hazardous
<i>Bacillus subtilis</i>	ATCC 6051A	> 0.5%	N/A Non Hazardous
<i>Rhodopseudomonas palustris</i>	ATCC 17001	> 0.5%	N/A Non Hazardous
<i>Nitrosomonas europaea</i>	ATCC 25978	> 0.5%	N/A Non Hazardous
<i>Nitrobacter winogradskyi</i>	ATCC 25391	> 0.5%	N/A Non Hazardous
Water	7732-18-5	> 96.5%	N/A

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : N/A

First-aid measures after skin contact : Remove contaminated clothing. Wash affected area with soap and water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. **Most important symptoms and effects, both acute and delayed**

Symptoms/injuries: Eye irritation.

Symptoms/injuries after inhalation: N/A

Symptoms/injuries after eye contact: May cause eye irritation.

Symptoms/injuries after ingestion: Ingestion may cause nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media: N/A

Unsuitable extinguishing media: N/A

Special hazards arising from the substance or mixture

Fire hazard: Non flammable

Explosion hazard: No explosion hazard

Reactivity: Non-reactive. Will not polymerize.

Advice for firefighters

Firefighting instructions: Exercise caution when firefighting any chemical fire.

Protection during firefighting: Firefighter should wear full protective gear. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures : Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice.

For non-emergency personnel

Protective equipment: Use appropriate personal protection equipment (PPE).

Emergency procedures: N/A

For emergency responders

Protective equipment: Use appropriate personal protection equipment (PPE).

Emergency procedures: Ventilate area.

Environmental precautions

Dispose down entry to sewers and public waters.

Methods and material for containment and cleaning up

For containment: Store at room temperature.

Methods for cleaning up: Clear up spills immediately and dispose of waste safely.

Reference to other sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed: None

Precautions for safe handling: None

Hygiene measures: Handle in accordance with good industrial hygiene safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for safe storage, including any incompatibilities

Technical measures: None

Storage conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible products: N/A

Incompatible materials: N/A

Storage area: Any storage room, away from children

Special rules on packaging: None

Specific end use(s)

Soil amendment, applied directly to soil or as foliar spray to optimize crop yield.

SECTION 8: Exposure controls/personal protection

Control parameters

Beneficial Bacteria 68920-42-3		
USA ACGIH	ACGIH TWA (ppm)	N/A
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	N/A
USA IDLH	US IDLH (ppm)	N/A
USA OSHA	OSHA PEL (TWA) (mg/m ³)	N/A
USA OSHA	OSHA PEL (TWA) (ppm)	N/A

Exposure controls

Appropriate engineering controls : Ensure all national/local regulations are observed.

Personal protective equipment : Protective goggles. Gloves.



Hand protection : Wear protective gloves.
 Eye protection : Chemical goggles or safety glasses.
 Skin and body protection : N/A
 Respiratory protection : N/A
 Thermal hazard protection : N/A
 Other information : N/A

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid
 Appearance : Amber suspension of bacteria in
 Color : Amber
 Odor : Musty to odor of sulfide
 Odor threshold : No data available
 pH : 6.0 to 8.5
 Relative evaporation rate (butylacetate=1) : Water
 Melting point : N/A
 Freezing point : 0 C (water)
 Boiling point : 100 C (water)
 Flash Point : N/A
 Autoignition temperature : N/A
 Decomposition Temperature : Will not decompose
 Flammability (solid, gas) : Not flammable
 Vapor pressure : Water
 Relative vapor density at 20 °C : Water
 Relative density : Water
 Density : Water
 Solubility : Miscible.
 Log Pow : No data available
 Log Kow : No data available
 Viscosity, kinematic : Water
 Viscosity, dynamic : Water
 Explosive properties : Not explosive
 Oxidizing properties : Will not oxidize
 Explosive limits : Not applicable

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity Will not react.

Chemical Stability Stable, will not polymerize.

Possibility Of Hazardous Reactions No known hazardous reactions.

Conditions To Avoid Avoid freezing, store below 100 F, preferably store at room temperature.

Incompatible Materials None.

Hazardous Decomposition Products None.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity : Notclassified

Beneficial Bacteria68920-42-3	
LD50 oral rat	Unknown, not toxic
LD50 dermal rabbit	Unknown, not toxic
LC50 inhalation rat (mg/l)	Unknown, not toxic

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Mild eye irritant

Respiratory or skin sensitization : Not classified **Germ**

cell mutagenicity: None

Carcinogenicity: None

Reproductive toxicity : None

Specific target organ toxicity (single exposure) : None

Specific target organ toxicity (repeated exposure): None

Aspiration hazard: None

Symptoms/injuries after inhalation: May cause drowsiness or dizziness.

Symptoms/injuries after eye contact: Causes serious eye irritation.

Symptoms/injuries after ingestion: Ingestion may cause nausea, vomiting and diarrhea.

SECTION 12: Ecological information

Toxicity

Beneficial Bacteria68920-42-3	
LC50 fishes 1	None, not toxic
EC50 Daphnia 1	None, not toxic
LC50 fsh 2	None, not toxic
EC50 Daphnia 2	None, not toxic

Persistence and degradability

Beneficial Bacteria68920-42-3	
Persistence and degradability	Readily biodegradable in water. Not established.

Bioaccumulative potential

Beneficial Bacteria68920-42-3	
BCF fish 1	None
Log Kow	N/A
Bioaccumulative potential	Not established.

Mobility in soil

No additional information available

Other adverse effects

Other information : May dispose of waste material

SECTION 13: Disposal considerations

Waste treatment methods

Regional legislation (waste): U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII. U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring. U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents. U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards. U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring.

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics.

Waste disposal recommendations: May dispose down drain, sewer, or pour into lake or pond. No hazardous disposal

problems or risks.

Additional information: Dispose of empty containers in recycle or waste bins.

SECTION 14: Transport information

In accordance with ICAO/IATA/DOT/TDG

UN number

UN-No. (DOT) : N/A

DOT NA no. : N/A

UN proper shipping name

Department of Transportation (DOT) : N/A

Hazard Classes

Hazard labels (DOT) : Non hazardous

Packing group (DOT) : No danger

DOT Special Provisions (49 CFR 172.102) : N/A

DOT Packaging Exceptions (49 CFR

173.xxx) : N/A

DOT Packaging Non Bulk (49 CFR

173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx) : N/A

Additional information

Emergency Response Guide (ERG)

Number : N/A

Other information : No supplementary information available.

Transport by sea

DOT Vessel Stowage Location : No limits or special considerations. Non hazardous, non corrosive, non explosive, will not polymerize, no vapors.

MFAG-No. : N/A

Air transport

DOT Quantity Limitations Passenger

aircraft/rail (49 CFR 173.27) : N/A

DOT Quantity Limitations Cargo aircraft

only (49 CFR 175.75) : N/A

SECTION 15: Regulatory information

US Federal regulations

Beneficial Bacteria 68920-42-3

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag	None
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US State regulations

Beneficial Bacteria 68920-42-3

State or local regulations	None, N/A
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SECTION 16: Other information

Indication of changes : January 1, 2016

Other information : This document was prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases

None	N/A
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NFPA health hazard: None

NFPA fire hazard : None

NFPA reactivity : None

HMIS III Rating

Health : 0 Minimal Hazard

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

This information is based on our current knowledge and describes the product for health, safety, and environmental requirements only.

SDS US (GHS HazCom) - US Only