

Safety Data Sheet

Microbiate™ SG

SECTION 1. IDENTIFICATION

Product Identifier Microbiate™ Oil Spill Cleaner for Soil and Gravel
Other Means of Identification Microbiate™ SG

Recommended Use Spill kits and bulk applications for soil and gravel oil spill clean-up
Restrictions on Use Do not use in or near potable water
Initial Supplier Identifier BioNorth Solutions Inc.
76 Twin City Crossroad
Rosslyn, ON, Canada
P7K 0C6
Emergency Telephone Number 1-807-344-1601

SECTION 2. HAZARD IDENTIFICATION

Classification Non-hazardous by WHMIS criteria.
Label Elements
Other Hazards Dusts of this product may cause irritation of the nose, throat, and respiratory tract. May cause stomach distress, nausea, or vomiting. May be harmful if swallowed. Contact with abraded skin may result in infection.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Common name / Synonyms	Other identifiers
Spent grain	97660-18-9	99%		
Microbial consortia	68332-91-2	1%		

Notes

This product contains spent grain (99%), microbial consortia (1%)

SECTION 4. FIRST-AID MEASURES

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Skin Contact Brush away excess of dry material. Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation persists.

Eye Contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Ingestion Rinse mouth. Never give anything by mouth if victim is unconscious, or is convulsing. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical attention.

Most Important Symptoms and Symptoms can include irritation, redness, scratching of the cornea, and tearing. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Effects, Acute and Delayed

Symptoms of infection may include but are not limited to: redness, inflammation, itching and/or burning, and fever. Skin may be discoloured at infection site, warm, raised, abscessed, or pustule.

Immediate Medical Attention and Special Treatment

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable

Dry chemical, CO2, water spray or regular foam.

Extinguishing Media

Unsuitable

Not available.

Extinguishing Media

Specific Hazards

Firefighters should wear a self-contained breathing apparatus.

Arising from the Product

Special Protective Equipment and

Firefighters should wear full protective clothing including self contained breathing apparatus.

Precautions for Fire-Fighters

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures Methods for Containment and Cleaning Up

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Prevent entry into waterways, sewers, basements or confined areas. For large spills, set down with water and dike for later disposal. Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. After removal flush contaminated area thoroughly with water.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Use only with adequate ventilation. Do not breathe dust. Avoid contact with eyes, skin and clothing. When using do not eat or drink. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Wear appropriate personal protective equipment when handling this product. Keep container tightly closed.

Conditions for Safe Storage

Store in a closed container away from incompatible materials. Keep out of reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls	Ensure adequate ventilation.
Individual Protection Measures	
Eye/Face Protection	Wear safety glasses with side shields (or goggles).
Skin Protection	Wear appropriate safety gloves.
Respiratory Protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Granular.
Colour	Brown.
Odour	None.
Melting Point and Freezing Point	Not available.
Boiling point or Initial Boiling Point and Boiling Range	Not available.
Flammability	
Upper and Lower Flammability or Explosive Limit	Not available.
Flash point	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
pH	7
Kinematic Viscosity	
Solubility	
Partition Coefficient, n-Octanol / Water (Log Kow)	
Vapour Pressure	
Density and Relative density	Not available.
Relative Vapour Density	
Particle characteristics	Not available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	Temperatures greater than 50°C or less than -80°C may inactivate bacterial cultures.
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Hazardous polymerisation does not occur.
Conditions to Avoid Incompatible Materials	Do not mix with other chemicals. Keep away from extreme heat. None when used and stored according to label directions.
Hazardous Decomposition	May include and are not limited to: Oxides of carbon.

Products

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation Skin contact Eye contact Ingestion

Acute Toxicity

LC50

LD50 (oral)

LD50 (dermal)

Notes

Non-fatal on exposure.

Skin Corrosion / Irritation

None expected during normal conditions of use. Contact with abraded skin may result in infection.

Serious Eye Damage / Irritation

May cause mechanical irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Aspiration Hazard

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Respiratory and/or

Skin Sensitization

Carcinogenicity

Non-hazardous by WHMIS criteria.

Reproductive Toxicity

Development of Offspring

Non-hazardous by WHMIS criteria.

Sexual Function and Fertility

Non-hazardous by WHMIS criteria.

Effects on or via Lactation

Non-hazardous by WHMIS criteria.

Germ Cell

Non-hazardous by WHMIS criteria.

Mutagenicity

Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability

Not available.

Bioaccumulative Potential

Not available.

Mobility in Soil

Not available.

Other Adverse Effects

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose in accordance with all applicable regulations.

SECTION 14. TRANSPORT INFORMATION

General Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.
Transportation of Dangerous Goods (TDG - Canada) Not regulated as dangerous goods

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

SECTION 16. OTHER INFORMATION

Date of Latest Revision 26-08-2025
