

Microbiate™ HS

Technical Data Sheet



76 Twin City Crossroad, Unit C
Rosslyn, Ontario
P7K 0C6
(807) 344-1601
info@bionorthsolutions.com

Product Overview

Microbiate™ HS is an environmentally friendly, low cost, all-natural proprietary microbial formulation that digests gasoline, fuel, oil, other hydrocarbons, and other organic contaminants on hard surfaces. The formulation is more aggressive, more consistent, and more efficient than any other product on the market. The microbes work in the widest temperature range and on multiple hard surfaces.

Remediate spills and return your hard surfaces back to their original state with Microbiate™ HS.

Benefits

- Absorbs spills quickly.
- Cold climate adapted; Microbiate™ HS offers the lowest operating temperature rating on the market (0°C).
- Active remediation upon application and works at the highest temperature range on the market (49°C).
- Proprietary manufacturing methods eliminate impurities, ensuring the microbes are highly effective and will propagate rapidly.
- Comes in two sizes to suit specific remediation needs – large and small individual, emergency spills kits.
- Light weight product. Decreases shipping costs and manual handling requirements. It's safe for your staff and significantly reduces muscle and back strain.



- Simple clean up. Doesn't stick to shoes or clothing. Reduces ancillary clean up requirements common with competing products.
- Environmentally friendly and biodegradable.



Uses of Microbiate™ HS

- Hydrocarbon spills: gasoline, diesel, hydraulic, engine and many mixed oils on hard surfaces such as concrete and asphalt.
- Microbiate™ HS has 8 times the absorbency of similar granular spill cleanup products.
- When applied as directed, Microbiate™ HS will absorb oil and leave behind zero residue, ensuring a complete spill cleanup.

Application Instructions

Please consult your contact at BioNorth Solutions.

Hazards and Restrictions

- Non-hazardous by WHMIS criteria.
- Dust may cause irritation to eyes or respiratory system.



Handling and Storage

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.

Store in a closed container in a dry place. Keep out of reach of children.

Dispose of in accordance with all applicable regulations.

Shelf Life

Stable for 3 years from time of manufacturing. Temperatures greater than 50°C or less than -80°C may inactivate bacterial cultures.

Available Product Sizes

Product No.	MB-HS1	MB-HS5	MB-HS15
Product Weight	0.45 kg	2.3 kg	6.4 kg
Absorbency	1-3 L	3-15 L	15-45 L



List of Contaminants

F1 | F2 | F3 | F4 | F4G Hydrocarbons

- Methanol
- Butane
- Propane
- Gasoline
- Methyl Tertiary Butyl Ether
- Kerosene
- Aviation & Jet Fuels
- Diesel Fuel
- Heating Oil
- Motor Oil
- Lubricating Oil
- Lubricating Grease
- Hydraulic Oil
- Transmission Fluid
- Paraffin
- Mineral Oil & Spirits
- Petroleum Jelly
- Crude Oil

Polycyclic Aromatic Hydrocarbons (PAH)

- Napthalene
- Pyrene
- Anthracene
- Fluorene

Solvents

- Dimethylformamide
- Paint Thinners

Volatile Organic Compounds (VOCs)

- Benzene
- Ethylbenzene
- Toluene
- Xylene

Organics

- Acetone
- Anti-Freeze
- De-Icing Products
- Glycols

This list of contaminants is non-exhaustive. Please consult your contact at BioNorth Solutions to determine if this product will work for you.

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