

Material Safety Data Sheet

MicrobeMAX™ Volumetric Drain Foam

SDS #: 6696-A
Revision Date: 2011-04-29
Version 1



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	MicrobeMAX™ Volumetric Drain Foam
Active Ingredient(s)	Biostim
Recommended use	Cleaning agent
Manufacturer	Emergency telephone number
FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com	For leak, fire, spill or accident emergencies, call: (800) 424-9300 (CHEMTREC - U.S.A.) +1 (703) 527-3887 (CHEMTREC - Collect - All Other Countries) Medical Emergencies: (800) 331-3148 (U.S.A. & Canada) +1 (651) 632-6793 (All Other Countries - Collect)

2. Hazards identification

Appearance	Aerosolized liquid
Physical State	liquid
Odor	No information available
Physical or Chemical Hazards	
Flammable properties	Flammable Aerosol. Contents under pressure.
Potential health effects	
Acute effects	
Eyes	Contact with eyes may cause irritation.
Skin	Substance may cause slight skin irritation.
Inhalation	May cause irritation of respiratory tract. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
Ingestion	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic effects	
Most Important Symptoms/Effects	Vapors may cause drowsiness and dizziness.

3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No	Weight %
Propane	74-98-6	5-10
Butane	106-97-8	1-5
Citrus Terpenes	94266-47-4	1-5

4. First aid measures

Eye contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
Skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not induce vomiting or give anything by mouth to an unconscious person.
Notes to physician	Treatment is symptomatic and supportive.

5. Fire-fighting measures

Flammable properties Flammable Aerosol. Contents under pressure.

Flash Point No information available

Special hazards arising from the substance or mixture

Sensitivity to Mechanical Impact not applicable

Sensitivity to Static Discharge not applicable

Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂), Foam, Dry chemical, Water spray.

Advice for fire-fighters

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit.

NFPA

Health Hazard	1
Flammability	3
Stability	0
Special Hazards	-

6. Accidental release measures

Personal precautions Isolate and post spill area. Remove all sources of ignition. Ventilate the area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8. If ventilation is not possible wear full protection suit and chemical protective equipment.

Environmental precautions Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds.

Methods for cleaning up Transfer damaged cartridges or cans to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13. Rinsate may be disposed at a waste water treatment plant.

Other For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

7. Handling and storage

Handling Do not contaminate pesticides, fertilizers, water, food or feed by storage or disposal.

Storage Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container only.

8. Exposure controls/personal protection

Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³	
Butane 106-97-8	TWA: 1000 ppm		TWA: 800 ppm TWA: 1900 mg/m ³	Mexico: TWA 800 ppm Mexico: TWA 1900 mg/m ³

Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	TWA: 1000 ppm	TWA: 1000 ppm
Butane 106-97-8	TWA: 600 ppm TWA: 1000 ppm STEL: 750 ppm	TWA: 800 ppm TWA: 1900 mg/m ³	TWA: 800 ppm	TWA: 1000 ppm

Occupational exposure controls

Engineering measures Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal protective equipment

General Information The personal protective equipment (PPE) recommendations apply to the product ITSELF. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.

Respiratory protection For dust, splash, mist or spray exposures wear a filtering mask.

Eye/face protection For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield.

Skin and body protection Wear long-sleeved shirt, long pants, socks, shoes, and gloves.

Hand protection Protective gloves

Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

9. Physical and chemical properties

Appearance	Aerosolized liquid
Color	light brown
Physical State	liquid
Odor	No information available
pH	No information available
Melting Point/Range	No information available
Freezing point	No information available
Boiling Point/Range	not applicable
Flash Point	No information available
Evaporation rate	not applicable
Autoignition Temperature	not applicable
Flammable properties	Flammable Aerosol. Contents under pressure.
Vapor pressure	4395 mm Hg
Vapor density	No information available
Density	No information available
Specific Gravity	0.926
Bulk density	No information available
Water solubility	Soluble in water
Percent volatile	No information available
Partition coefficient:	not applicable
Viscosity	No information available
Oxidizing properties	not applicable

10. Stability and reactivity

Stability	Stable
Conditions to avoid	Heat, flames and sparks
Materials to avoid	Oxidizing agents, Bases, Acids, Chlorinated compounds
Hazardous decomposition products	Carbon oxides
Hazardous polymerization	Hazardous polymerization does not occur

11. Toxicological information

Eye contact	Contact with eyes may cause irritation.
Skin contact	May cause slight irritation
Ingestion	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation	May cause irritation of respiratory tract. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
LD50 Dermal	No information available
LD50 Oral	No information available
LC50 Inhalation:	No information available

Chronic Toxicity - Other Ingredient(s)

Carcinogenicity Contains no ingredient listed as a carcinogen.
Target Organ Effects Eyes, Skin, Respiratory system, Central nervous system (CNS).

12. Ecological information

Ecotoxicity
Ecotoxicity effects The environmental impact of this product has not been fully investigated. Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.
Environmental Fate
Persistence and degradability No information available.

13. Disposal considerations

Waste disposal methods If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.
Contaminated packaging Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

14. Transport information

DOT

Proper shipping name Consumer commodity
Hazard Class ORM-D

TDG

Proper shipping name Aerosols
Hazard Class 2.1
UN/ID No UN1950
Description UN1950, Aerosols, 2.1

ICAO/IATA

UN/ID No ID8000
Proper shipping name Consumer commodity
Hazard Class 9
Description ID8000, Consumer commodity, 9

IMDG/IMO

Proper shipping name Aerosols
Hazard Class 2.1
UN/ID No UN1950
EmS No. F-D, S-U
Description UN1950, Aerosols, 2.1

15. Regulatory information

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	U.S. - TSCA (Toxic Substances Control Act) - Section 8(a) - Chemical-Specific Reporting and Recordkeeping
Propane	Partially exempt chemical substance termed Petroleum Process Stream
Butane	Partially exempt chemical substance termed Petroleum Process Stream

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Mexico
Butane		Mexico: TWA 800 ppm Mexico: TWA 1900 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B5 Flammable aerosol



16. Other information

Revision Date: 2011-04-29
 Reason for revision: Initial Release.

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Prepared By

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End of Material Safety Data Sheet