



Micro-P

Section 1: Identification

Product Name: Micro-P
Reference Number:
Recommended use: Bacterial Product - For Petro-Chemical use.

Supplier Information: Cartier Environmental Services Inc.
90, 50512 RR 245
Leduc County, AB T4X 0P5
Tel: 780-955-5520 Fax: 780-955-0250

Emergency Phone Number: CANUTEC 613-996-6666

Section 2: Hazard Identification

Classification of the Substance or Mixture

GHS Classification

Eye irritation – Category 2A

Skin irritation – Category 3

Label Elements

Signal Word: Warning

Hazard Symbols:



Hazard Statements

Physical Hazards: None.

Health Hazards:

H316: Causes mild skin irritation.

H319: Causes serious eye irritation.

Environmental Hazards: None.

Precautionary Statements

Prevention:

P260: Do not breathe dust/fumes/gas/mist/vapors/spray.

P264: Wash hands thoroughly after handling.

P281: Use personal protective equipment as required.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352: IF ON SKIN: wash with plenty of soap and water.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P332+P313: IF skin irritation occurs: Get medical advice/attention.

P337+P313: IF eye irritation persists: Get medical advice/attention.

Storage and Disposal:

P501: Dispose of contents/container in accordance with local/regional/federal/international regulations.



Section 3: Ingredient Composition and Information

All components not listed are either non-hazardous or are present at a concentration below the cut-off value (1% or 0.1% in some instances).

This product contains only non-pathogenic microorganisms.

Section 4: First-Aid Measures

Description of First-Aid Measures

- Inhalation:** Remove to fresh air. Seek medical attention if symptoms occur.
- Skin Contact:** Wash affected area with plenty of soap and water for at least 15 minutes. Remove contaminated clothing/footwear. Get medical attention if irritation persists. Wash clothing before reuse.
- Eye Contact:** Rinse eyes with plenty of water, making sure to get under the upper and lower eyelids. If applicable, remove contact lenses after 5 minutes and continue to flush eye after removal. Get medical attention immediately if irritation persists.
- Ingestion:** DO NOT induce vomiting. Dilute with plenty of water or milk. Never give anything by mouth to a convulsing or unconscious patient. Get medical attention immediately.

Symptoms and Effects, both Acute and Delayed: Refer to "Section 11: Toxicological Information".

Immediate Medical Attention/Special Treatments: If medical advice is needed, have product container or label at hand. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

- Flammable Properties:** Non-flammable.
- Suitable Extinguishing Media:** Dry chemical, water spray, or carbon dioxide.
- Unsuitable Extinguishing Media:** None.
- Special Hazards arising from the Substance or Mixture:** Fire creates fumes including Carbon and Sulphur dioxide.

Precautions for Fire-Fighters: Exercise caution when fighting any chemical fire. Firefighters' protective clothing will only provide limited protection. Wear chemical protective clothing, including respiratory protection. Move containers from the area on fire if it can be done without risk.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures

- General Measures:** Equip clean-up crew with proper protection. Ensure the area is well ventilated and use appropriate respiratory protection if it isn't. Evacuate unnecessary personnel.
- Protective Equipment:** Always use appropriate personal protective equipment (PPE). Do not touch and avoid walking through spilled material. Do not touch damaged containers unless equipped with PPE.
- Emergency Procedures:** As an immediate precautionary measure, isolate spill or leak if it can be done safely. Eliminate all ignition sources (Smoking, flares, sparks, or flames). Ventilate closed areas before entering. If outdoors, stay upwind.
- Environmental Precautions:** Avoid run off and prevent entry to waterways, sewers, and public waters. Dispose of waste in accordance with local, regional, national, and/or international regulations.



Containment & Clean-up Measures: Clean up spill immediately and dispose of waste safely. Stop leak and isolate spill if it can be done safely. For more information on safe disposal, please refer to “Section 13: Disposal Considerations”.

Section 7: Handling and Storage

Precautions for Safe Handling: Before use carefully read the product label. Always handle empty containers with care as they may retain residual product. Ensure ventilation is adequate when using this product. Handle in accordance with good industrial hygiene and safety procedures. Wash hands or other exposed areas thoroughly with soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage: Ensure containers are properly labelled and protected from physical damage when not in use. Check regularly for leaks or spills. Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from combustible substances and away from heated areas, sparks and flame.

Storage Incompatibilities: Store away from children, food items, and potable water. Store in an area out of direct sunlight. Avoid storing in a damp environment.

Section 8: Exposure Controls and Personal Protection

Control Parameters:

Exposure Limits/Guidelines					
Substance	Results	Canada (Ontario)	ACGIH	NIOSH	OSHA
Micro-P	STEL	NDA	NDA	NDA	NDA
	TWA (PEL)	NDA	NDA	NDA	NDA

Exposure Controls

Engineering Measures/Controls: Use adequate ventilation to control the concentration of airborne contaminants and ensure it stays below the applicable exposure limit values. Gas detectors should be used when gases or vapors are released. Ensure all local/national regulations are met.

Individual Protection Measures: Use proper protective equipment. Wear safety goggles and protective gloves when handling this product. Avoid dermal exposure. In case of insufficient ventilation, or if exposure limits are exceeded or symptoms are experienced, use a NIOSH/MSHA approved respirator. Always handle product in accordance with good industrial hygiene and safety practice.

Key to Abbreviations: **NIOSH:** National Institute of Occupational Safety and Health
MSHA: Mine Safety and Health Administration

Section 9: Physical and Chemical Properties

Material Description			
Appearance	Free flowing powder	Flammability	Non-Flammable
Odor	Variable	Explosive Limits	No data available
Odor Threshold	No data available	Vapor Pressure	No data available
pH of a 1% solution	6.5 - 9.0	Vapor Density	No data available
Melting Point	No data available	Relative Density	No data available
Freezing Point	No data available	Solubility	Forms a dispersion in water
Initial Boiling Point	No data available	Partition Coefficient	No data available
Boiling range	No data available	Auto-Ignition Temperature	No data available
Flash Point	No data available	Decomposition Temperature	No data available
Evaporation Rate	No data available	Viscosity	No data available



Section 10: Stability and Reactivity

Reactivity Data:

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known. Hazardous polymerization will not occur.

Hazardous Decomposition Products: None known.

Conditions to avoid: Store out of direct sunlight.

Incompatible Materials: Strong acid or alkali compounds may inactivate biological cultures.

Section 11: Toxicological Information

Information on Toxicological Effects

Acute Toxicity

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Micro-P	No data available	No data available	No data available

Health Hazards

GHS Properties	Classification
Aspiration Hazard	Not classified
Skin Corrosion/Irritation	Category 3
Serious Eye Damage/Irritation	Category 2A
Respiratory Sensitization	Not classified
Skin Sensitization	Not classified
Carcinogenicity (IARC)	Not classified
Germ Cell Mutagenicity	Not classified
Reproductive Toxicity	Not classified
STOT – Single Exposure	Not classified
STOT – Repeated Exposure	Not classified

*STOT: Specific Target Organ Toxicity

Target Organ: Not Applicable.

Routes of Entry: Not Applicable.

Symptoms	Acute	Chronic
After Inhalation	Mucous membrane irritation	No data available
After Eye Contact	Transient severe irritation	May cause permanent eye damage
After Ingestion	Gastrointestinal tract irritation	No data available

Section 12: Ecological Information

Ecotoxicity: Minimal impact under normal conditions. The bacterial cultures are naturally occurring soil type organisms. The carriers are naturally occurring materials.

Persistence and Degradability:

Soil: Product is biodegradable

Water: Disperses in water.

Bioaccumulative Potential: Not likely.

Mobility in the Soil: No data available.

Other adverse Effects: None known.



Section 13: Disposal Information

Waste Treatment Methods

Product Waste: To be disposed of as hazardous waste. Dispose of waste in accordance with local, regional, national, and/or international regulations.

Packaging Waste: Dispose of container or packaging in accordance with local, regional, national, and/or international regulations.

Section 14: Transport Information

UN Number: Not UN regulated.

UN Proper Shipping Name: Not UN regulated.

Transport Hazard Class

Required Labels: None.

Transport Category: Not TDG regulated.

Packing Group: Not TDG regulated.

Environmental Hazards: Please refer to "Section 12: Ecological information"

Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC code): No data available.

Special Precautions for User: Please refer to "Section 7: Handling and Storage".

Section 15: Regulatory Information

Safety, Health, and Environmental Regulations:

International Inventories:

Chemical Name	AICS	TSCA	DSL	NDSL	EINECS/ELINC	ENCS	IECSC	KECL	PICCS
Micro-P	NDA	Does not apply	NDA	NDA	NDA	NDA	NDA	NDA	NDA

Inventory Legend:

AICS: Australian Inventory of Chemical Substances
TSCA: United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS: Japan Existing and New Chemical Substances
IECSC: China Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemicals and Chemical Substances

The information contained in this data sheet does not constitute an assessment of workplace risks.

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

The product formulation contains a range of naturally occurring microorganisms which are known to be non-pathogenic to man or animals. This product has been shown to be free of Salmonella and Shigella using procedures outlined by AOAC and the USDA.

Abbreviation Key/Legend:

NA:	Not Applicable
NDA:	No Data Available
CAS:	Chemical Abstract Service
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference or Governmental Industrial Hygienists
NIOSH:	National Institute of Occupational Safety and Health
OSHA:	Occupational Safety and Health Administration
MSHA:	Mine Safety and Health Administration
EC No.:	Reference number used by the European communities to identify dangerous substances
LD50:	Chemical dose which kills 50% of the test population
LC50:	Concentration of a chemical which kills 50% of the test population
TWA:	Time weighted average
STEL:	Short Term Exposure Limit

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