

Product Description

PRP BioFIRST is the initial step in a biologic treatment for water damage claims, especially black water. This product digests organic odours and soils into water and carbon dioxide, including those from fecal matter and urine.

PRP BioFIRST uses the power of non-pathogenic spore strains and bio-based cleaning technology that is specifically engineered for water damage claims. PRP BioFIRST is also designed for areas of heavy pet urine and soils from trauma and will work from the moment you arrive until enough water is removed during the cleaning process to limit the biological activity.

PRP BioFIRST will eliminate the worst odours from water damage including black water, in 15 minutes or less. PRP Water Damage products keep working even after the contractor leaves. Conventional odour control is not required. Do not introduce any other cleaners or deodorizers while PRP Water Damage products are at work. PRP BioFIRST's biological action digests wastes reducing solids, reducing organic load and reducing soil load that penetrates porous material.

DIRECTIONS

PRP BioFIRST begins the digestion process in areas of sustained moisture. This product eliminates the organic odours, liquifies the solids in black water and will minimize the odours affecting the contractors' clean-up equipment (i.e. wet vacs, etc.).

Dilution Ratios:

Standing Black Water / Heavy Load

Apply 2 gallons (7.6 L) PRP BioFIRST per 400 sq.ft. per one foot depth (1 gallon / 1500 gallons of black water).

Standing Black Water / Moderate Load

Apply 1 gallon (3.78 L) PRP BioFIRST per 400 sq.ft. per one foot depth (or 1 gallon / 3000 gallons of black water).

Dried or Moist Load

Fill a 2-gallon (7.6 L) pump-up sprayer with 1 gallon (3.78 L) product and at least 1 gallon (3.78 L) of water. Apply until contained area is visibly wet. Re-apply as required to maintain visible wetness.

Depending on the surface and drying conditions a 2-gallon pump-up sprayer would cover about 1,000 sq.ft. Use any standing water or existing moisture as part or all of your dilution calculations. You may pour undiluted product directly into standing water, if mixed.

Complete the physical clean-up as defined by the IICRC S-500 guidelines. Extract any residual, remove contents, carpets etc. depending on the class of contamination. Clean or pressure clean all surfaces and then apply PRP BioRESTORE as per guidelines (see label for details).

Start the drying process as soon as possible.

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **BIOFIRST**
 Product Use: *Biologically-based restoration treatment.*
 M-chem Technologies Inc.
 1607 Derwent Way
 Delta, BC V3M 6K8, Canada
 Phone: (604) 526-5655

WHMIS CODE: D2B
 Proper Shipping Name: N/A
 Hazard Class: N/A
 UN Number: N/A

EMERGENCY PHONE
 Canada: Canutec 613-996-6666
 U.S.A.: Chemtrec 800-424-9300

HMIS	
1	Health
0	Flammability
0	Reactivity
B	Personal

A=Goggles, B=Goggles & Gloves
 C=Goggles, Gloves and Apron

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
NO HAZARDOUS INGREDIENTS - THIS FORMULATION CONTAINS NO REPORTABLE HAZARDOUS INGREDIENTS LISTED UNDER WHMIS				
OTHER INGREDIENTS:				
Viable Bacterial Cultures	N/A	N/A	N/A	N/A
Alkylpolyglycoside blend	110615-47-9/ 68515-73-1	1-5	N/A	N/A
LD50 (oral rat)	>2000 mg/kg			
LD50 (dermal rabbit)	N/D			

SECTION 3 – PHYSICAL DATA

Color and Odor: Milky white, fresh scent. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 7.0 +/- 0.5
Physical State: Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.00 @ 20°C
Coef. Water/Oil Dist: Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: None to 100°C (TCC) **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.
Flammable Limits: None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.
Unusual Fire and Explosion Hazards: None. **Conditions of Flammability:** None.
Hazardous Combustion Products: None known.
Special Fire Fighting: Wear NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situation. Use water spray to cool all nearby fire exposed surfaces.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable under normal storage conditions.
Hazardous Polymerization: Will not Occur.
Incompatibility (material to avoid): None known.
Hazardous Decomposition Products: None known.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin and eyes contact, ingestion.
Irritancy of Product: May be irritating to skin and eyes. **Carcinogenicity:** None known.
Sensitization: None known. **Mutagenicity:** None known.
Teratogenicity: None known. **Reproductive Toxicity:** None known.
Name of Toxicological Synergistic Product: None known.
Effects of Chronic Exposure: Dermatitis and skin sensitization may occur.
Effects of Acute Exposure to Product: May be irritating to eyes and skin.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: Normally not required. However, if product is misted or sprayed, use a NIOSH/MSHA approved dust/mist respirator.
Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.
Protective Gloves: Use rubber or plastic gloves when handling the concentrated product.
Eye Protection: Chemical goggles, safety goggles or face shield.
Protective Clothing and Equipment: Long sleeve coveralls. Eye wash recommended in the immediate work area.
Storage and Handling Procedures: Use good Industrial hygiene. Avoid contact with skin, eyes and clothing. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with other chemicals. Store at temperatures below 30°C and keep from freezing.
Disposal Procedures for Spills or Leaks: Wear protective equipment. Soak up spills with absorbents, then dispose of in an appropriate waste container. Keep material away from sewers.
Waste Disposal Method: Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.
Special Shipping Information: Store at temperature between 2-30°C and keep from freezing.

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid:
 If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division PHONE: 604-526-5655 LAST UPDATE: 07/04/11
 THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE