

MSDS DATA
Fb Systems' Multi-Purpose Line
(RPD™, Fb₁ Bag™, Fb₂ Bag™, HSF™)
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*INSTANT
 SLUSH
 ICE
 REPAIR
 #50-10210*

Section I

IDENTITY As used on Label and List: water absorbent polymer
MATERIAL NAME acrylic acid polymer. partial sodium salt

Section II – Hazardous Ingredients/Identity Information

	%(optional)	OSHA PEL	ACGIH TLV	Other Limit Recommended
Composition				
-acrylic acid polymer				
Partial sodium salt	Approx	None Estb.	None Estb.	
- Materials Weight > 1				
Limits based nuisance dust And particulate		TWA: 15mg/m3	TWA: 10mg/m3	0.05 mg/m3
UN Class: Not applicable				
UN No: Not applicable				

Section III – Physical Chemical Characteristics

Boiling point (C)	: Not applicable
Vapor Pressure	: Not applicable
Vapor Density	: Not applicable
Appearance and Odor	: White powder, no specific odor
Bulk Specific Gravity	: Approx: 1.6
Melting point	: Decomposes below melting point
Evaporation Rate	: Not applicable
Solubility in water	: Insoluble, swellable

Section IV 0 Fire and Explosion Hazard Data

Flash Point (Method Used)	: >510 C
Flammable Limits	: No data
Extinguishing Media	: Carbon dioxide, dry chemical
Special Fire Fighting Procedures	: Wear self contain
Usual Fire Explosion Hazards	: Implement standard safety precautions for

Section V – Reactive Data

Material Safety Data Sheet

(RPD™, Fb₁Bag™, Fb₂Bag™, HSF™)

1. Compositions and ingredients:

Exterior material : Jute

Chemical contained: Super absorbent polyacrylate materials. (134.7 ml - FbBag to 1372.6 ml - HSF)

2. Hazardous information

The Chemical contained when wet render surfaces extremely slippery

The product swells in water with a product to liquid ratio of 1:510

3. First Aid

Inhalation: No hazards which require special first aid measures.

Skin Contact: No Hazards which require special first aid measures.

Eye Contact: Rinse thoroughly with plenty of water, also under eyelids. In case of persistent eye irritations consult a doctor.

4. Fire Fighting

Extinguishing media: water, carbon dioxide, or foam.

Fire extinguishing agents to avoid: None

Special firefighting precautions: The chemical contained when wet render surfaces extremely slippery. The product swells in water.

Protective equipment for Firefighting: None Needed.

5. Accidental Release measures:

Personal precautions: No special precautions needed.

Environmental precautions : DOES NOT CONTAMINATE WATER

Methods for cleaning up: Clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

6. Handling and Storage

Handling: avoid contact with skin or eyes. Avoid dust formation. Do not breath dust. Wash hands after use.

Gloves are recommended.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Handling after use: Either simply let them dry in the sunlight

Storage: Store them in a dry and ventilated place. Natural ventilation is adequate in absence of dusts.

Packaging: In cartons or bags.

7. Physical and Chemical Properties

Appearance: Exterior bag is made of jute, interior bag is made of cotton with chemical inside.

Solubility in water: Insoluble in water when fully inflated.

Melting Point: N/A

Boiling Point: N/A

Flash Point: > 510 C (>950 F)

Vapor Pressure (mm Hg) : N/A

8. Stability, Toxicology and reactivity

Stability: The bag and the chemical container are stable in normal conditions, avoid sunshine, ultra violet light and fire.

Conditions to avoid: no Special precautions required. The product swells in water.

9. Physical and Chemical properties

Form: Powder solid

Color: White

Stability: Product is stable. No hazardous polymerization will occur.

Conditions to avoid: No special precautions required. The product swells in water

10. Disposal

Methods for cleaning up the bag: It can be recycled.

Methods for cleaning up for the chemical contained if you choose not to dry out: Slit the bag and scoop out. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water, which in fact can be used as a source of aeration source for grass and plants. The chemical itself in its 100% purity has been proven as being unharmed to human health and the environment. Disused bags can be recycled.

11. Transport

Transportation of these bags should be treated as a non-hazardous cargo transport.

12. Regulations

Users should ensure that they comply with relevant local, or national legislation.

Stability : stable
Conditions to avoid : flame

Section VI - Health Hazard Data

Route(s) of Entry : Inhalation: Yes Skin: No Ingestion: Yes

Health Hazard (Acute and Chronic)

Eye Contact	: Eye Mucosal irritation	Non-irritant(washed . rabbit) Minimal irritation(unwashed. rabbit)	[Similar Product] [Similar Product]
Skin Contact	: Skin irritation	Non-irritant (patch test. Human)	[Similar Product]
Inhalation	: Dust may cause lung irritation and inflammation		
Ingestion	: Acute oral toxicity L.D.50 > 2.00 mg/kg (rat)		[Similar Product]

Carcinogenicity : NTP : Not Listed IARC Monographs : Not Listed
monomer and polymer are not carcinogenic

Signs and Symptoms of Exposure: Contact with eyes may cause itching.

Medical Conditions, Generally Aggravated by Exposure: No specific information is available.

Emergency and First Aid Procedures

Eye contact	: Immediately flush eyes with plenty of water for at least 15 minutes including under eyelids. Get medical attention
Skin contact	: Flush affected skin with soap and water.
Inhalation	: Remove to fresh air and restore breathing.
Ingestion	: Rinse mouth with water. Do not induce vomiting. Get medical attention.

Further Information: Preliminary inhalation study with micronized super absorbent polymer. Result was that exposure limit for repairable polymer dust was below 0.05 mg/m³

Section VII – Precautions for Safe handling and Use.

Steps to be Taken in Case Material is Released or Spilled

Stop leaks. Sweep up, shovel or vacuum using explosion- proof equipment and place in a disposable container. Provide adequate ventilation to spill area. Wear adequate personal protective clothing and equipment.

Waste Disposal Method

Incinerate in accordance with Federal, State, local regulations.
EPA does not define this product as hazardous waste under RCRA Handbook

Precautions to Be Taken in Handling and Storing

Avoid contact with eyes and breathing dust when handling. Wash hands and face thoroughly after handling.
Store in a cool and dry place away from heat and flame. Keep container tightly closed.

Other Precautions

None

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Use an approved dust respirator for concentration in excess of the applicable exposure limits.

Ventilation

Local Exhaust : Required when dusty conditions
Mechanical (General) : Recommended
Special : None
Other : None

Protective Gloves : Wear impervious gloves
Eye protection : Wear safety glasses
Other Protective Clothing or Equipment : Eye wash facility
Work/Hygienic Practices : Necessary (safety shower etc.)