

Grain Processing Corporation

MATERIAL SAFETY DATA SHEET

SECTION I - Product and Company Identification

Product: BIOMELT® S anti-icing/deicing fluid

Chemical Name: Trade secret

Formula: Proprietary

Manufacturer: Grain Processing Corporation, P.O. Box 349, 1600 Oregon Street, Muscatine, Iowa 52761

24-Hour Emergency Assistance: 563-264-4304

For Other Information, Call: 563-264-4265

SECTION II - Ingredients

<u>Ingredient(s)</u>	<u>CAS No.</u>	<u>% by Wt.</u>	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>NFPA</u>	<u>SARA</u>
			<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>		
Trade Secret	--	--	--	--	--	--	0-0-0	--

NFPA-Hazard Identification: This system identifies the hazards in three categories: Health, Flammability, and Reactivity and indicates the order of severity ranging from 4 indicating a severe hazard to 0 indicating no special hazard.

SARA-EPA SARA Title III Hazard Categories: 1-Fire Hazard, 2-Sudden Release of Pressure, 3-Reactive, 4-Immediate (Acute) Health Hazard, 5-Delayed (Chronic) Health Hazard.

SECTION III - Physical Data

Boiling Point (°F): Not available

Vapor Pressure (mm Hg): Not available

Vapor Density (Air=1): Not available

Solubility in Water: Appreciable

Appearance and Odor: Clear, blue-green aqueous solution; slight odor

Specific Gravity (H₂O=1): ~1.18

Evaporation Rate (n-BuAc=1): Not available

Melting Point: Not applicable

pH: ~4.1

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used): Not applicable

Flammable Limits: LeI - Not applicable UeI - Not applicable

Extinguishing Media: Water, carbon dioxide, or dry chemical

Special Fire Fighting Procedures: Wear proper fire-fighting equipment

Unusual Fire and Explosion Hazards: None

SECTION V - Health Hazard Data

Route(s) of Entry: Inhalation - none. Skin - unlikely. Eyes - yes. Ingestion - unlikely.

Carcinogenicity: NTP - no. IARC - no. OSHA - no.

Threshold Limit Value: See Section II

Acute Oral Toxicity (rat): Low acute oral toxicity; LD50 for rats is >5 g/kg.

Skin Contact: May cause irritation.

Eye Contact: May be irritating to eyes.

Inhalation: None

Effects of Overexposure: Acute signs and symptoms as listed.

Emergency and First Aid Procedures:

Ingestion: If large quantities are ingested, seek medical supervision.

Skin Contact: Wash skin with water and mild soap. If irritation occurs, seek medical attention.

Eye Contact: Flush eyes with plenty of water for 30 minutes. Get medical attention if warranted.

Inhalation: None required.

SECTION VI - Reactivity Data

Stability: Stable

Conditions to Avoid: None

Incompatibility (Materials to Avoid): May be corrosive to light metals.

Hazardous Decomposition Products: Thermal decomposition may produce oxides of carbon.

Hazardous Polymerization: Will not occur.

SECTION VII - Spill or Leak Procedures

Steps to Be Taken in Case Material Is Released or Spilled: All spills should be contained and picked up with earthen or other absorbent material and placed in suitable container.

Waste Disposal Method: Dispose of in approved solid waste disposal area per current regulations.

SECTION VIII - Special Protection Information

Personal Protective Equipment: Protective clothing, gloves and safety eyewear protection are not required, but recommended. Use appropriate NIOSH-approved respirator when needed. Respirator selection must be based on contamination levels found in the work area. Comply with OSHA standards 29 CFR 1910.134 Respiratory Protection and 29 CFR 1910.1000 Air Contaminants Permissible Exposure Limits. Eyewash and safety shower should be available. Follow good housekeeping and manufacturing practices.

Ventilation: Use general or local exhaust ventilation to meet OSHA PELs or ACGIH TLV requirements.

SECTION IX - Special Precautions

Precautions to Be Taken in Handling and Storing: Spilled material may be slippery. Clean up spills completely before walking in the area of spillage.

Other Precautions: Observe proper clean-out and flushing procedures before welding or torching.

SECTION X - Transportation (DOT Information)

Department of Transportation - Classification: Not applicable

Department of Transportation - Identification Number: Not applicable

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.

GPC-MSDS

BIOMELT® S

Effective Date: 06/04/02