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**MATERIAL SAFETY DATA SHEET**

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**EMERGENCY ASSISTANCE:** 208-467-7958 (Office)

Manufacturer: BioWest Ag Solutions  
Address: 9757 Hwy 45  
Nampa, Idaho 83686

MSDS Revised Date July, 2010

Health Risk: 0  
Reactivity: 0  
Flammability: 0  
4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant

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**SECTION I – PRODUCT IDENTIFICATION**

Product Name: BioPhos™  
Synonyms & Trade Names (Family): N/A  
NPK Values: 10-20-0  
Hazardous Class: Non-Hazardous

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**SECTION II – HAZARDOUS INGREDIENTS**

Complies with OSHA 29 CFR XVII-1910.1200 Section (1) “trade secrets.” Contains no hazardous components under OSHA definitions.

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**SECTION III – PHYSICAL & CHEMICAL CHARACTERISTICS**

Boiling Point (degrees, F): 212° F  
Specific Gravity (H2O=1): 1.199  
Weight per gallon: 10 lb  
Solubility: 95%  
Vapor pressure: 15 mm @ 68° F  
Appearance: Liquid  
Color: Dark brown  
Odor: Vinegar odor  
pH Value: 6.0-6.5

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**SECTION IV – FIRE AND EXPLOSION HAZARD DATA**

NFPA Flammability Rating: Will not burn.  
OSHA Flammability Class: N/A  
Extinguishing Media: No specific method noted.  
Special Fire Fighting Procedures: No specific fire fighting procedures noted.  
Evacuation Procedures: No specific evacuation procedure noted, but evacuation of personnel may still be required in an emergency situation.  
NIOSH Respirator Recommendation: No specific recommendation made.  
Unusual Fire and Explosion Hazards: No unusual fire and explosion hazard noted.

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**SECTION V – REACTIVITY DATA AND PHYSICAL HAZARDS**

Stability: Stable  
Conditions to Avoid: None Known  
Reactivity Index: Unknown  
Hazardous Decomposition: None Known  
Hazardous Polymerization: None Known  
Conditions to Avoid: None  
Water Reactive: N/A  
Air Reactive: No  
Incompatible Specific Chemicals: None  
Incompatible Classes of Chemicals: None

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**SECTION VI – HEALTH HAZARD INFORMATION**

Routes of Entry:  
Inhalation: None  
Eyes: Rinse thoroughly with water 15 minutes; see physician if problems.  
Skin: None  
Ingestion: Drink large quantities of water. Medical attention advised.  
Target organs: No specific target organs.

Toxicological Information:

Health Warnings: None  
Acute and Chronic Health Hazards: No specific acute or chronic health impact noted.  
Signs and Symptoms of Exposure: May dry out sensitive skin after prolonged contact; will stain skin.  
Medical Conditions Generally Aggravated by Exposure: None  
Chemical listed as carcinogen or potential carcinogen: None  
National toxicology program: No  
I.A.R.C. Monographs: No  
OSHA: No  
Emergency & First Aid Procedures: None

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**SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE**

Precautions to be taken in handling and storing: Keep covered while transporting. Rotate before use. In case of accidental exposure, flush with water. Product is non-hazardous.  
Steps to be taken in case material is released or spilled: No special requirements known.  
Waste Disposal: Dispose of material in accordance with all local, state and federal laws and regulations; no special requirements known.  
Other Precautions: None

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**SECTION VIII – PROTECTION AND CONTROL MEASURES**

Respiratory Protection: Not required.  
Protective Gloves: Recommended mainly for smell  
Eye Protection: Recommended  
Other Protective Clothing or Equipment: Wear appropriate clothing to prevent repeated or prolonged skin contact.  
Hygienic Work Practices: Not required.  
Ventilation Requirements: Normal  
Mechanical: N/A  
Work hygienic practices: N/A

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**SECTION IX – ADDITIONAL INFORMATION**

Prepared by BioWest Ag Solutions

Reviewed by Angela Lafferty

NOTE: Use with caution and according to specifications on manufacturer's label. MSDS may not fully reflect manufacturer's recommendations. Containers will contain residues of the product. Do not re-use containers for any purpose other than storing or mixing of fertilizers. The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.