

## 1: PRODUCT AND COMPANY IDENTIFICATION

### Product Identifiers

Product Name: BIO-GEL ROOTSURGE

Product Number: n/a

Brand: BIO-GEL ROOTSURGE

CAS-No: n/a

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: fertilizer

### Manufacturer

Company: Manufactured exclusively by

Midwestern BioAg

10955 Blackhawk Drive, Blue Mounds, WI 53517

Telephone: +1 800-327-6012

Fax: +1 608-437-4984

Emergency Telephone Number

Emergency Phone #: +1 800-327-6012 (Monday-Friday, 8:00am – 5:00pm Central Time)

## 2: HAZARDS IDENTIFICATION

Classification of the substance in accordance with 29 CFR (OSHA HCS)

Skin Corrosion/Irritation 2 (H315)

Serious Eye Damage/Eye Irritation Category 2A (H319)

Specific Target Organ Toxicity – Single Exposure Category 3 (H335)

GHS Label elements, including precautionary statements



Pictogram(s):

Signal word(s): Danger

Warning Hazard statement(s):

H290 - May be corrosive to metals

H303 - May be harmful if swallowed

H320 - May cause skin and eye irritation

H410 - very toxic to aquatic life

Precautionary statement(s):

P102 - Keep out of reach of children

P103 - Read label before use

P273 - Avoid release in aquatic environments

P305+P351+P338, P337+P313 - IF IN EYES Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists Get medical advice/attention.

P391 - Collect spillage

### 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances/Mixtures

Chemical characterization: mixture

Description: mixture of substances listed below with nonhazardous additions

Ingredients classified as hazardous by the GHS and are present above their cut-off levels:		
CAS #	Description	%
N/A	*Proprietary	100%

All compositions are on a dry-weight basis unless otherwise noted. This Safety Data Sheet is not a guarantee of product specification or NPK values. NPK content is on specified sales orders, customer invoices, or product specification sheets obtained from supplier.

Additional Information:

Trace metals and volatile organics can be detected in quantities less than 1.0%, most at less than 0.1%. These components and any potentially pathogenic agents are of a sufficiently low quantity to allow this product to meet US EPA 40CFR Part 503 Class A Exceptional Quality biosolid requirements and the NOB processed manure standard.

### 4: FIRST AID MEASURES

*General Advice:* Wear appropriate PPE and exercise good hygiene practices after handling this product.

*Skin Contact:* Wash skin with soap and water. Should dermal irritation or sensation occur, seek medical attention.

*Eye Contact:* Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.

*Ingestion:* Get medical attention if any discomfort occurs.

### 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Use fire-extinguishing media appropriate for the surrounding fire.

Special hazards arising from the substance or mixture:

At high temperatures, this type of fertilizer can give off undefined fumes

Advice for firefighters

Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires.

Selection of respiratory protection for firefighting: follow general fire precautions indicated in the workplace.

Further Information

Becomes slippery when wet, guard against falls.

### 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

None required.

Environmental precautions

Do not allow to enter sewers, drains, surface or ground water.

Methods and materials for containment and clean up in compliance with local, state or federal regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7: HANDLING AND STORAGE

Precautions for safe handling

Wash after handling. Do not contaminate water by disposal of equipment wash waters.

Conditions for safe storage, including incompatibilities

Store in a cool, dry area out of reach of children and animals in the unopened original package.

Avoid excessive light.

Specific end use(s)

No further relevant information available.

## 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

The product is not known to contain any relevant quantities of materials, chemical or biological, with critical values that must be monitored at the workplace.

Exposure Controls

Provide general ventilation in processing and storage. Provide local exhaust if necessary to reduce dust levels below acceptable limits.

*General protective and hygienic measures:*

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands after handling material, before breaks, before eating, drinking, and/or smoking, and at the end of work.

Avoid contact with the eyes and skin.

Personal protective equipment:

Protection of hands: Protective gloves recommended

Eye protection: Tightly sealed goggles

Skin protection: No skin protection is ordinary required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	liquid
Physical State	liquid
Color	dark to light brown
Odor	Odorless
Odor threshold	not determined
pH	6.5-7.5
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	none
Evaporation rate	not determined
Flammability (solid, gas)	not determined
Ignition Temperature	not determined
Decomposition temperature	not determined
Explosion Limits	
Lower	not determined
Upper	not determined
Vapor pressure	not applicable
Vapor density	not applicable

Relative density	not determined
Solubility(ies); Partition coefficient: (n-octanol/water)	not determined
Viscosity:	cp #5 spindle, 60 rpm 720-800

## SECTION 10: STABILITY AND REACTIVITY

Reactivity Corrosive action on metals possible  
 No further relevant information available  
 Chemical stability  
 Stable under normal conditions  
 Thermal decomposition/conditions to be avoided  
 No decomposition if used according to specifications  
 Possibility of hazardous reactions  
 No dangerous reactions known  
 Conditions to avoid  
 Excessive heat; absorbs moisture in areas with high humidity

Incompatible materials  
 Strong acids, strong bases, and oxidizing agents  
 Hazardous decomposition products  
 Expected to emit the same types of toxic smoke as would be released during combustion of other organic materials

## 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects  
 Acute Toxicity: No information available  
 Primary Irritant effect:  
 On the skin: irritation of skin and mucous membranes  
 In the eye: irritating effect, may cause serious eye irritation

## 12: ECOLOGICAL INFORMATION

Toxicity:  
 Aquatic toxicity: Depending on concentration, toxic effects on activated sludge organisms are possible.  
 Persistence and degradability: No further relevant information available.  
 Behavior in environmental systems: The substances are biodegradable/eliminable in activated sludge units  
 Bioaccumulative potential: Not worth-mentioning accumulating in organisms  
 Mobility in soil: No further relevant information available.  
 General notes:  
 Do not allow product to reach ground water, water course or sewage system. Potentially harmful to aquatic organisms

Results of PBT and vPvB assessment:  
 PBT: Not applicable.  
 vPvB: Not applicable.

Other adverse effects: No further relevant information available.

### **13: DISPOSAL CONSIDERATIONS**

Waste treatment methods:

Recommendation: If at all possible, reuse product. Material is a fertilizer and should be used as such. Keep out of any body of water. Ensure that disposal is in compliance with local, state or federal regulations.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

### **14: TRANSPORT INFORMATION**

This section is not mandated under HCS 29 CFR 1910.1200(g)

### **15: REGULATORY INFORMATION**

This section is not mandated under HCS 29 CFR 1910.1200(g)

## 16. OTHER INFORMATION

The product is classified and labeled in accordance with the Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012.

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The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

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