



# SAFETY DATA SHEET

## Grobac

SDS DATE: *revised* 10/16/2015

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT IDENTIFIER: Grobac

PRODUCT USE: Agriculture, forestry, rights-of-way, roadside  
Adjuvants, Surface active agents

SUPPLIER DETAILS: Name: Brewer International, Incorporated  
Address: PO Box 690037  
Vero Beach, FL 32969  
Phone: (800) 228-1833  
Fax: (772) 778-2490

EMERGENCY PHONE: Chem Tel (800) 255-3924 available 24 hours

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### SECTION 2: HAZARDS IDENTIFICATION

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HAZARD CLASSIFICATION: Eye Damage, category 1  
Skin Corrosion, category 1

LABEL ELEMENTS:



### EMERGENCY OVERVIEW

ROUTES OF ENTRY: Eye Contact, Skin Contact, Inhalation, Ingestion

HEALTH EFFECTS:

Eyes: **DANGER** causes severe eye damage.

Skin: **DANGER** causes severe skin burns.

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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INGREDIENT: Ash

<u>CAS #</u>	<u>WT%</u>
N/A	4

INGREDIENT: Lactic Acid

<u>CAS #</u>	<u>WT%</u>
50-21-5	12

INGREDIENT: L. Acidophilus

<u>CAS #</u>	<u>WT%</u>
N/A	12



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INGREDIENT: Moisture Inert

CAS #  
N/A

WT%  
72

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### SECTION 4: FIRST AID MEASURES

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**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.

**IF ON SKIN:** Wash with plenty of water and soap. If skin irritation or rash occurs, get medical advice. Take off contaminated clothing and wash it before reuse.

**IF SWALLOWED:** Rinse mouth. Call a doctor if you feel unwell.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, administer oxygen, if available.

**NOTES FOR PHYSICIANS:** This material is an acid. The primary toxicity of this product is due to its irritant effects on mucous membranes. If cough or shortness of breath occurs, evaluate the possibility of bronchitis or pneumonitis. Chest x-ray and arterial blood gases can be used to determine the presence of pulmonary edema. In severe cases, use of humidified oxygen and assisted ventilation including positive end expiratory pressure (PEEP) may be needed. Parenteral steroids may be useful in limiting the extent of pulmonary damage.

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### SECTION 5: FIRE-FIGHTING MEASURES

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**FLASH POINT:**

F: >200°  
C: >93°

**SUITABLE EXTINGUISHING MEDIA:** Dry chemicals, alcohol-resistant foam, carbon dioxide, or water fog.

**UNSUITABLE EXTINGUISHING MEDIA:** Direct water stream may spread fire.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** Incomplete combustion may produce carbon monoxide and carbon dioxide. Burning may produce noxious and toxic fumes.

**SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:** Evacuate the area promptly. Do not scatter spilled material with high pressure water streams. Use water spray to cool unopened containers. Wear self-contained breathing apparatus and full protective clothing.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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**PERSONAL PRECAUTIONS:** Keep unnecessary personnel away. **DO NOT** touch damaged containers or spilled material unless wearing appropriate protective gear. Keep people away from and upwind of spill/leak. Keep out of low areas. Ensure adequate ventilation. Ventilate closed spaces before entering them. Material can create slippery conditions. No smoking.

**ENVIRONMENTAL PRECAUTIONS:** Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers ditches and waterways.



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**METHODS FOR CONTAINMENT: ELIMINATE** all ignition sources (no smoking, flares, sparks, static discharge or flames in the immediate area). Stop the flow of the material and dike spill area when possible without exposure to unnecessary risk.

**METHODS FOR CLEANING UP: DO NOT** release this product into the environment. Use equipment rated for use around combustible materials. First, neutralize acidity with an alkaline material (i.e. soda ash, lime). For large spills, absorb spilled liquid with suitable non-combustible absorbent material such as dirt or sand. For small spills, wipe up with suitable absorbent material such as cloth. Clean exposed surfaces thoroughly to remove any residual contamination. Never return spills to original containers for re-use. Dispose any contaminated absorbents appropriately. For waste disposal, see section 13 of this SDS.

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### SECTION 7: HANDLING AND STORAGE

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**PRECAUTIONS FOR SAFE HANDLING:** Keep material away from heat, sparks, hot surfaces and open flames. Wash hands and exposed skin thoroughly after handling. **DO NOT** breathe vapors or spray. Use only out doors or in a well-ventilated area. Wear protective gloves and eye protection. Use appropriate personal protective equipment. **DO NOT** get in eyes, on skin or on clothing. Avoid prolonged and repeated contact. **DO NOT** swallow. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing must not be allowed out of the workplace.

**STORAGE:** Store in a well-ventilated place with proper sprinkler/fire deterrent system. Avoid extreme temperatures. Keep container tightly closed. **DO NOT** cut, drill, grind or weld on or near this container. Keep out of the reach of children. Store locked up.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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INGREDIENT(S)	EXPOSURE LIMITS
Lactic Acid	OSHA PEL: Not Established ACGIH TWA: Not Established ACGIH STEL: Not Established

PEL= Permissible Exposure Limits  
TWA= Time Weighted Average  
STEL= Short term Exposure Limit

ACGIH= American Conference of Governmental Industrial Hygienists  
OSHA= Occupational Safety and Health Administration

**ENGINEERING CONTROLS:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Maintain air concentrations below occupational exposure limits. Use local exhaust when misting occurs. Natural ventilation is adequate in absence of mists. Keep away from sparks and flames.

**RESPIRATORY PROTECTION:** No personal respiratory protective equipment normally required. An approved respirator must be worn if airborne concentrations are above any recommended exposure limits. In misty atmospheres, use an approved respirator.

**EYE PROTECTION:** If material could be misted or splashed into eyes, wear safety glasses with side shields (or goggles). Eye wash fountain should be available.

**SKIN PROTECTION:** Impervious gloves are recommended. Boots, apron, bodysuit, or other suitable protective clothing should be worn as necessary.



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**WORK HYGIENIC PRACTICES:** When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Wash hands and face before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Have eye wash and emergency shower facilities immediately available. Handle in accordance with good industrial hygiene and safety practice.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Dark brown

**ODOR:** Kelp odor

**ODOR THRESHOLD:** No data available

**PHYSICAL STATE:** Liquid

**pH:** No data available

**FREEZING POINT:** No data available

**BOILING POINT:** No data available

**FLASH POINT:** >200°F (93.3°C)

**EVAPORATION RATE (N-Butyl Acetate = 1):** No data available

**FLAMMABILITY (SOLID, GAS):** No data available

**UPPER/LOWER FLAMMABILITY:** No data available

**VAPOR PRESSURE (mmHg):** No data available  
@ 68°F (20.0°C)

**VAPOR DENSITY (AIR = 1):** No data available

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** No data available  
@ 68°F (20.0°C)

**SOLUBILITY IN WATER:** Soluble

**PARTITION COEFFICIENT (N-Octanol/Water):** No data available

**AUTO-IGNITION TEMPERATURE:** No data available

**DECOMPOSITION TEMPERATURE:** No data available

**VISCOSITY:** No data available

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### SECTION 10: STABILITY AND REACTIVITY

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**REACTIVITY/POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization does not occur. Prevent oxidation by avoiding long-term exposure to air.

**CHEMICAL STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Keep away from heat, sparks, static discharge, flame, and exposure to elevated temperatures.



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**INCOMPATIBLE MATERIALS:** Strong bases; chlorides; stainless steel; sodium tetrahydroborate; amine, amides; alcohols; glycols; azo-compounds; cabamates; esters; caustics; phenols; cresols; ketones; organophosphates; epoxides; unsaturated halides; sulfides; mercaptans; cyanides; and aldehydes.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon monoxide, carbon dioxide, oxides of limonene and other organic compounds which may be toxic.

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### SECTION 11: TOXICOLOGICAL INFORMATION

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**ACUTE TOXICITY:** Oral,  $ATE_{mix} = LD_{50} > 100,000$  mg/kg for rats  
Dermal, no data available  
Inhalation, no data available

**SKIN CORROSION/IRRITATION:** May cause mild skin irritation.

**EYE DAMAGE/IRRITATION:** Causes serious eye irritation.

**RESPIRATORY OR SKIN SENSITIZATION:** The product is not expected to be sensitizing.

**GERM CELL MUTAGENICITY:** No data available

**CARCINOGENICITY:** No components present in excess of 0.1% by weight listed as carcinogens by OSHA, NTP, IARC or ACGIH.

**REPRODUCTIVE TOXICITY:** No data available

#### SPECIFIC TARGET ORGAN TOXICITY

**SINGLE EXPOSURE:** May cause respiratory irritation, headache, drowsiness, coughing, shortness of breath, or dizziness. May cause irritation to gastrointestinal tract with burning of the mouth, vomiting, and diarrhea.

**REPEATED EXPOSURE:** None expected

**ASPIRATION HAZARD:** Not expected

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### SECTION 12: ECOLOGICAL INFORMATION

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#### ECOTOXICITY

**Fish:** No data available

**Daphnia:** No data available

**PERSISTENCE AND DEGRADABILITY:** No data available

**BIOACCUMULATIVE POTENTIAL:** No data available

**MOBILITY IN SOIL:** No data available

**OTHER ADVERSE EFFECTS:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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### SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Incinerate or dispose of in accordance with Local, State, and Federal Regulations. Commercially clean containers prior to disposal. Oil soaked rags should be disposed of properly to prevent spontaneous combustion. Do not allow this material to drain into sewers/water supplies. For the safety of persons conducting disposal, please refer to the information in section 8.



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### SECTION 14: TRANSPORT INFORMATION

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**DOT**

Not regulated

**IATA**

Not regulated

**IMDG**

Not regulated

**TDG**

Not regulated

**ENVIRONMENTAL HAZARDS:** The product is not a marine pollutant as defined by 49 CFR part 171.8 or TDG regulations.

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### SECTION 15: REGULATORY INFORMATION

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**U.S. FEDERAL REGULATIONS:** This product is a Hazardous Chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List or exempt under 40 CFR 720.30.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT) reportable substances:**

not regulated

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**HAZARD CATEGORIES**

**IMMEDIATE HAZARD:** Yes

**DELAYED HAZARD:** No

**FIRE HAZARD:** No

**PRESSURE HAZARD:** No

**REACTIVE HAZARD:** No

**313 REPORTABLE INGREDIENTS:** No

**302 EXTREMELY HAZARDOUS SUBSTANCE:** No

**CALIFORNIA PROPOSITION 65:** *The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986.* This product does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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### SECTION 16: OTHER INFORMATION

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**NFPA RATINGS**

**HEALTH:** 3

**FIRE:** 1

**REACTIVITY:** 0



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