



# SAFETY DATA SHEET

## F-239

SDS DATE: revised 5/29/2015

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### SECTION 1: IDENTIFICATION

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PRODUCT IDENTIFIER: F-239

PRODUCT USE: Agriculture, forestry, fishery  
Adjuvants, Surface active agents  
Industrial spraying  
Wide dispersive outdoor use of processing aids in open systems

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: HAZARD(S) 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: 2-butoxyethanol and other chemicals in a proprietary formulation

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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 or burning persists, get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. If skin irritation occurs, get medical attention.

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



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**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

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### SECTION 5: FIRE-FIGHTING MEASURES

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**FLASH POINT:**

- F: Will not flash
- C: Will not flash

**SUITABLE EXTINGUISHING MEDIA:** Water, Dry chemicals, foam, carbon dioxide, water spray or fog.

**UNSUITABLE EXTINGUISHING MEDIA:** None

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** None

**SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:** Evacuate the area promptly. Observe all precautions that apply to any fire where chemicals are stored. Wear suitable protective equipment.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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**PERSONAL PRECAUTIONS:** Keep unnecessary personnel away. Ensure adequate ventilation.

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

**METHODS FOR CONTAINMENT:** Stop the flow of the material and dike spill area.

**METHODS FOR CLEANING UP:** Flood area with water and mop up spill. For waste disposal, see section 13 of this MSDS.

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### SECTION 7: HANDLING AND STORAGE

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**PRECAUTIONS FOR SAFE HANDLING:** Wash hands after handling. Avoid breathing vapors or spray. Use only out doors or in a well-ventilated area. **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.

**STORAGE:** Store in a well-ventilated place with proper sprinkler/fire deterrent system. Keep container tightly closed. Store locked up.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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INGREDIENT(S)	EXPOSURE LIMITS
2-butoxyethanol	OSHA PEL: 50 ppm, 240 mg/m <sup>3</sup> , skin ACGIH TWA: 20 ppm ACGIH STEL: Not Established
Sodium Octanesulfonate	OSHA PEL: Not Established ACGIH TWA: Not Established ACGIH STEL: Not Established



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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.

**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:** Blue

**ODOR:** Low chemical 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:** Does not flash

**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:** Yes

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

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



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**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:** None expected.

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

**CONDITIONS TO AVOID:** Keep away from heat, sparks, static discharge or flames.

**INCOMPATIBLE MATERIALS:** Strong acids and bases, including acidic clays; alkali metals; halogens; peroxides; vinyl chloride; and iodine pentafluoride.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Sulfur dioxide and other oxides of sulfur.

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### SECTION 11: TOXICOLOGICAL INFORMATION

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**ACUTE TOXICITY:** No data available

**SKIN CORROSION/IRRITATION:** causes severe skin burns

**EYE DAMAGE/IRRITATION:** causes severe eye damage

**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:** Not expected

**REPEATED EXPOSURE:** Not expected

**ASPIRATION HAZARD:** Not expected

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### SECTION 12: ECOLOGICAL INFORMATION

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**ECOTOXICITY:** 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. 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:** 0

**REACTIVITY:** 0

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