



# CHEMICAL & FERTILIZER CORPORATION

## *Material Safety Data Sheet*

### Section 1 – Chemical Product and Company Identification

**Product Name:** Foam Fighter®  
**Chemical Name:** Adjuvant  
**Common Name, Synonym:** Proprietary  
**Material Uses:** Agricultural Adjuvant  
**Manufacturer/Manufactured For:** Miller Chemical and Fertilizer Corporation  
Phone: (717) 632-8921 FAX: (717) 646-1104 CHEMTREC: (800) 424-9300

### Section 2 – Composition/Information on Ingredients

Ingredient Name	CAS Number	%
The proprietary ingredients in Foam Fighter® are non-hazardous		

PA Right to Know: This product contains proprietary ingredients  
This product contains the following chemicals subject to the reporting requirements of Section 13 Title III of the Superfund Amendments and Reauthorization act of 1986 and 40 CFR part 372 ( the corresponding CAS numbers and typical percent by weight are also provided).  
None

### Section 3 – Hazards Identification

#### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

**Primary Entry Routes:** Eye and skin contact is the most likely exposure. Ingestion is possible.  
**Target Organs:** Eyes, skin and stomach.  
**Potential Health Effects**  
**Inhalation:** May cause slight irritation if mist occurs.  
**Eye:** May cause eye irritation.  
**Skin:** May cause skin irritation.  
**Ingestion:** Large doses may cause nausea, vomiting, and stomach pain or cramps.  
**Acute Effects:** Irritation  
**Chronic Effects:** Non known  
**Signs and Symptoms of exposure:** Eye contact may produce irritation and/redness.  
**Medical Condition Aggravated by Long-Term Exposure:** None known  
**Physical Hazards:** Refer to MSDS section 7 for handling and storage  
**Signal Word:** Not applicable/non-hazardous



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#### Section 4 – First Aid Measures

##### EYE CONTACT

Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

##### SKIN CONTACT

Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

##### INHALATION

Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

##### INGESTION

If swallowed, DO NOT induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician immediately!

#### Section 5 – Fire-Fighting Measures

<b>Flash Point (METHOD):</b>	>100°C (TCC)
<b>Auto-Ignition:</b>	Not Available
<b>Flammable Limits:</b>	Not Available
<b>Extinguishing Media:</b>	Dry chemical, carbon dioxide (CO <sub>2</sub> ), and foam
<b>Special Fire Fighting Procedures:</b>	None currently known.
<b>Unusual Fire and Explosion Hazards:</b>	Evacuate people downwind from fire and control runoff water

#### Section 6 – Accidental Release Measures

##### Personal precautions

Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

##### Contain spill

Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If acidity (low pH) is a problem, neutralize with hydrated lime, soda ash, or sodium bicarbonate. If alkalinity (high pH) is a problem neutralize with dilute acetic acid or dilute hydrochloric (muriatic) acid. If required, notify state and local authorities.



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**Section 6 – Accidental Release Measures *continued***

**Disposal Method**

Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and Local regulations. Local regulations may be more stringent than Federal or State.

**Section 7 – Handling and Storage**

**Handling:** Wear protective equipment when handling. Wash thoroughly after handling. Do not get in eyes. Do not breathe vapor, mist, or dust. Avoid prolonged or repeated contact with skin. Do not swallow.

**Storage:** For industrial use only. Keep container closed when not in use. Store in a cool dry place at temperatures between 41°F and 104°F (5°C and 40°C). Keep out of reach of children.

**Section 8 – Exposure Controls/Personal Protection**

Engineering Controls:

**Mechanical:** Mechanical ventilation is preferred.

**Respiratory Protection:** If exposure limits are exceeded, or if exposure may occur, use a NIOSHA/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSHA publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSHA/MSHA approved positive pressure-breathing apparatus should be readily available.

**Eye Protection:** Chemical goggles or face shield. Always wear eye protection when working with chemicals. Never wear contact lenses when working with chemicals.

**Skin Protection:** Rubber gloves. Clean protective body covering, rubber apron, and rubber boots.

**Work Hygienic Practices:** Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown in Section IV. Launder contaminated clothing before use.

**Other Protective Equipment:** Safety shower, eye wash fountain, and washing facilities should be readily available.



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### Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	White creamy liquid
<b>Odor:</b>	Moderate
<b>pH (aqueous approx. 5% in DW):</b>	3.5 to 4.0 @ 20°C
<b>Boiling point/Boiling range:</b>	Not Determined
<b>Freeze Point:</b>	Not Determined
<b>Flash Point:</b>	Not Determined
<b>Vapor Pressure (mmHg):</b>	Not Determined
<b>Vapor Density (Air=1):</b>	Not Determined
<b>Solubility in Water:</b>	Dispersible
<b>Specific Gravity (H<sub>2</sub>O=1 @ 4°C):</b>	0.95 – 1.05 g/mL @ 68°F (20°C)
<b>Evaporation Rate (NA=1):</b>	Not Determined
<b>Percent Volatile by Volume:</b>	Not Determined

### Section 10 – Stability and Reactivity

<b>Chemical Stability:</b>	Stable
<b>Materials to Avoid:</b>	Strong Oxidizing Agents
<b>Hazardous Decomposition or Byproducts:</b>	Oxides of carbon
<b>Hazardous Polymerization:</b>	None Known

### Section 11- Toxicological Information

#### Toxicity Data:

<b>Acute Eye Irritation:</b> May Cause Irritation	<b>Skin Sensitization:</b> Data not available
<b>Acute Dermal Effects:</b> May Cause Irritation	<b>Acute Dermal Irritation:</b> Data not available
<b>Acute Oral Effects:</b> May Cause Irritation	<b>Mutagenicity:</b> Data not available
<b>Acute Inhalation Effects:</b> May Cause Irritation	<b>Teratogenicity:</b> Data not available

### Section 12 – Ecological Information

**Ecotoxicity:** This product is a spray adjuvant. Large spills could possibly damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spread and runoff into drains, storm sewers, and ditches that lead to waterways.

**Aquatic Toxicity:** Data not available

**Environmental Fate:** Data not available



**Product Name:** Foam Fighter®

### Section 13 – Disposal Considerations

<b>Disposal:</b>	If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
<b>Disposal Regulatory Requirements:</b>	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
<b>Container Cleaning and Disposal:</b>	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

### Section 14 – Transport Information

#### U.S. DEPARTMENT OF TRANSPORTATION

**PROPER SHIPPING NAME:**  
**PACKING GROUP:**  
**HAZARD CLASS:**  
**LABEL/PLACARD REQUIRED:**  
**UN/NA No.:**

#### WATER TRANSPORTATION

**PROPER SHIPPING NAME:**  
**PACKING GROUP:**  
**HAZARD CLASS:**  
**LABEL/PLACARD REQUIRED:**  
**UN/NA No.:**

#### AIR TRANSPORTATION

**PROPER SHIPPING NAME:**  
**PACKING GROUP:**  
**HAZARD CLASS:**  
**LABEL/PLACARD REQUIRED:**  
**UN/NA No.:**

#### OTHER AGENCIES:

**SECTION 14 NOTES:** This product is not considered a hazard



**Product Name:** Foam Fighter®

**Section 15 – Regulatory Information**

**EPA Regulations:**

**Reportable Quantity –CERCLA: Not applicable**

**SARA Title III (EPCRA): Not applicable**

**RCRA Waste Code: Not applicable**

**State Regulations:**

**CA Proposition 65: Not applicable**

**EPA National Response Center (800) 424-8802**

**Section 16 – Other Information**

**Preparation Date:** 03/22/2012

**Prepared By:** Miller Chemical Compliance Officer

**Revision Date:**

**Revision Notes:**

**NOTICE TO READER:** THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET (“MSDS”) RELATES ONLY TO THE SPECIFIC PRODUCT(S) DESIGNATED HEREIN (THE “PRODUCT”). THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CURRENT AND CORRECT AS OF THE DATE OF THIS MSDS, AND OBTAINED FROM SOURCES THAT ARE BELIEVED TO BE RELIABLE. HOWEVER, THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATIONS OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO ACCURACY, CORRECTNESS, OR COMPLETENESS, AND NEITHER MILLER CHEMICAL AND FERTILIZER CORPORATION. NOR ITS MARKETING AFFILIATES (EACH, A “SELLER”) ASSUME ANY LEGAL RESPONSIBILITY FOR THE USE OR RELIANCE UPON SAME.