



# CHEMICAL & FERTILIZER CORPORATION

## *Material Safety Data Sheet*

### Section 1 – Chemical Product and Company Identification

**Product Name:** Swath Marker®

**Chemical Name:** Adjuvant

**Common Name, Synonym:** Surfactant Blend

**Material Uses:** Agricultural Foam Marker in Field

**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	%
This product has been tested as a whole to determine its hazard – see section 11		100

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. Contact with or inhalation of sprays may cause irritation to eyes, nasal and throat.

**Target Organs:** Eyes, skin and respiratory tract.

#### Potential Health Effects

**Inhalation:** May cause 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:** None known

**Signs and Symptoms of exposure:** High vapor concentrations may be irritating to the eyes and respiratory tract. May cause headaches and dizziness.

**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
<b>Auto-Ignition:</b>	Not Available
<b>Flammable Limits:</b>	Not Available
<b>Extinguishing Media:</b>	Dry chemical, carbon dioxide (CO <sub>2</sub> ), water spray or Sand/Earth
<b>Special Fire Fighting Procedures:</b>	None currently known.
<b>Unusual Fire and Explosion Hazards:</b>	Generates CO <sub>2</sub> , CO and smoke. Combustion products may be toxic

#### 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

Shut off leak if safe to do so. Dike area, recover and reclaim material if possible. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Absorb the liquid on material such as sand, vermiculite, or other inert, noncombustible absorbant and place in a clean, dry container suitable for disposal. Containers should be closed and segregated for later disposal. Scrub the area with detergent and water.



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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 at temperatures between 41°F and 104°F (5°C and 40°C) and in well-ventilated areas away from heat or flame. Keep out of reach of children.

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

Engineering Controls:

Mechanical: General ventilation is usually adequate.

**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>	Yellow clear liquid
<b>Odor:</b>	Moderate
<b>pH (aqueous approx. 5% in DW):</b>	6.0 – 8.5 @ 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>	Soluble
<b>Density:</b>	8.45 – 8.60 lbs/gal @ 68°F (20°C)
<b>Specific Gravity (H<sub>2</sub>O=1 @ 4°C):</b>	1.01 – 1.03 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/Conditions to Avoid:</b>	Strong oxidizing agents, excessive heat and sources of ignition.
<b>Hazardous Decomposition or Byproducts:</b>	At high temperatures may release oxides of carbon
<b>Hazardous Polymerization:</b>	Will not occur

### Section 11- Toxicological Information

#### Toxicity Data:

<b>Acute Eye Irritation:</b> May cause severe irritation	<b>Chronic Effects:</b> Not known
<b>Acute Dermal Effects:</b> May cause mild-mod irritation	<b>Carcinogenicity:</b> None found
<b>Acute Oral Effects:</b> May cause irritation or discomfort	<b>Mutagenicity:</b> None found
<b>Acute Inhalation Effects:</b> May cause lung irritation	<b>Teratogenicity:</b> None found

### Section 12 – Ecological Information

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

**Aquatic Toxicity:** Data not available

**Environmental Fate:** Data not available



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### 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:** Swath Marker®

**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:** 09/26/2012

**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.