



# MILLEA® CHEMICAL & FERTILIZER, LLC

## *Safety Data Sheet*

### Section 1 - Chemical Product and Company Identification

Product Name: HYBRID™  
Chemical Name: Adjuvant  
Common Name, Synonym: Proprietary  
Material Uses: Agricultural Adjuvant  
Manufacturer/Manufactured For: Miller Chemical and Fertilizer, LLC  
Phone: (717) 632-8921 FAX: (717) 646-1104 CHEMTREC: {800} 424-9300

### Section 2 - Hazard Identification

#### 2.1 Classification of the substance or mixture

GHS Classification (29 CFR 1910.1200)

Skin Sensitization (Category 1b)

Skin Irritation (Category 2)

#### 2.2 Label elements

GHS Labeling Elements

Pictogram: 

Signal Word: Warning

Hazard Statements: Causes skin irritation. May cause an allergic skin reaction.

Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Wear protective gloves. Contaminated clothing must not be allowed out of the workplace. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 3 - Composition/Information of Ingredients

Ingredient Name	CAS Number	%
This product has been tested as a whole to determine its hazard - see section 11		100



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**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 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>	330° (TCC)
<b>Auto-Ignition:</b>	Not Available
<b>Flammable Limits:</b>	Not Available
<b>Extinguishing Media:</b>	Use alcohol foam, carbon dioxide, water fog, dry chemical, or halon when fighting fires involving this material.
<b>Special Fire Fighting Procedures:</b>	None currently known.
<b>Unusual Fire and Explosion Hazards:</b>	Oxides of carbon may be generated.

**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.



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**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 required, notify state and local authorities.

**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 between 41 °F and 120 °F. 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.



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**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.

#### Section 9 - Physical and Chemical Properties

**Appearance:** Amber to brown liquid  
**Odor:** Moderate Oder  
**pH (aqueous approx. 5% in OW):** 6.0 - 7.0 @ 20° c  
**Boiling point/Boiling range:** 224° C  
**Freeze Point:** < 0° C  
**Flash Point:** Not Determined  
**Vapor Pressure (mmHg):** 22.8  
**Vapor Density (Air=1):** Not Determined  
**Solubility in Water:** emulsifies  
**Density:** 7.60- 7.70 lbs/gal @ 68° F (20° ( )  
**Specific Gravity (H<sub>2</sub>O=1 @ 4° ( ):** 0.9 - 0.93 @ 68° F (20° C)  
**Evaporation Rate (NA=1):** Not Determined  
**Percent Volatile by Volume:** Not Determined

#### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable  
**Materials to Avoid:** Strong oxidizers  
**Conditions to Avoid:** High Temperatures, Freezing and sources of ignition  
**Hazardous Decomposition or Byproducts:** Carbon oxides (CO, CO<sub>2</sub>, C<sub>2</sub>O<sub>4</sub> etc.)  
**Hazardous Polymerization:** Will not occur

#### Section 11- Toxicological Information

##### Toxicity Data:

**Acute Eye Irritation:** May cause irritation  
**Skin Sensitization:** Moderate potential to produce sensitization  
**Acute Dermal Effects:** LD<sub>50</sub> >5000 mg/kg (rat)  
**Acute Dermal Irritation:** 3.4/8 (rabbit) moderately irritating  
**Acute Oral Effects:** LD<sub>50</sub> >5000 mg/kg (rat)  
**Mutagenicity:** Data not available  
**Acute Inhalation Effects:** LC<sub>50</sub> > 5.88 mg/L  
**Teratogenicity:** Data not available



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**Section 12 - Ecological Information**

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

**Aquatic Toxicity:** Daphnia Magna: LC<sub>50</sub> 8.26 mg/L  
Bluegill Sunfish: LC<sub>50</sub> 11.08 mg/L  
Rainbow Trout: LC<sub>50</sub> 8.98 mg/L

**Environmental Fate:** Data not available

**Section 13 - Disposal Considerations**

**Disposal:** 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

**Disposal Regulatory Requirements:** Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

**Container Cleaning and Disposal:** 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:**



Product Name: HYBRID™

LABEL/PLACARD REQUIRED:  
UN/NA No.:

SECTION 14 NOTES: This product is not considered a hazard

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: 08/17/15

Prepared By: Miller Chemical Regulatory Compliance Officer

Revision Date:

Revision Notes:

NOTICE TO READER: THE INFORMATION CONTAINED IN THIS SAFETY DATA SHEET ("SDS") 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 SDS, 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, LLC. NOR ITS MARKETING AFFILIATES (EACH, A "SELLER") ASSUME ANY LEGAL RESPONSIBILITY FOR THE USE OR RELIANCE UPON SAME.