



# Safety Data Sheet

## C.A.L.F.A.®

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03  
Canadian Workplace Hazardous Material Information System (WHMIS) 2015  
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015  
GHS (Globally Harmonized System)

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product name** C.A.L.F.A.®  
**Pure substance/mixture** Hazardous Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** Adjuvant  
**Uses advised against** None known

### 1.3. Details of the supplier of the safety data sheet

**Company** Miller Chemical and Fertilizer, LLC  
120 Radio Rd  
Hanover, PA 17331  
Tel.: 717-632-8921  
Fax.: 717-646-1104

**Internet** <http://www.millerchemical.com>

**E-mail** [info@millerchemical.com](mailto:info@millerchemical.com)

**1.4. Emergency telephone number** CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**OSHA Regulatory Status** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**GHS Classification** Skin irritation - Category 2  
Eye irritation - Category 2B

### 2.2. Label elements

**Symbols/Pictograms**

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Warning

**Hazard Statements**H315 - Causes skin irritation  
H320 - Causes eye irritation**Precautionary Statements****Prevention**Wash hands thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection**Response**IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
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/attention  
Take off contaminated clothing and wash before reuse**Additional information**

Not applicable

**Hazards not otherwise classified (HNOC)**

None known

<b>SECTION 3: Composition/information on ingredients</b>
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**Pure substance/mixture****Hazardous Mixture**

Chemical Name	CAS Number	TSCA: United States	Canada (DSL)	Mexico	OSHA Regulatory Status	WHMIS	Weight-%
Mixture of Carboxylic Acids	--	A	Y	Y	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)	--	> 10%

**Legend**

Y: Complies ; A: Active ; - / N: Exempt / Not Listed

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>General Advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	Wash off immediately with soap and water removing all contaminate clothes and shoes. Wash contaminated clothing before reuse. Get medical attention.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. If vomiting occurs naturally, reduce the risk of aspiration by leaning their body forward. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Inhalation</b>	Remove to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed** Eye irritation. Skin irritation.

**4.3. Indication of any immediate medical attention and special treatment needed** Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable Extinguishing Media**

Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Water spray (fog). Dry chemical. Halon.

**Unsuitable Extinguishing Media**

None known.

**5.2. Special hazards arising from the substance or mixture**

Carbon oxides.

**5.3. Advice for firefighters****Special protective equipment for firefighters**

None known.

**Fire-fighting measures**

Water mist may be used to cool closed containers. No special fire protection measures are necessary. Standard procedure for chemical fires.

**SECTION 6: Accidental release measures**

- 6.1. Personal precautions, protective equipment and emergency procedures**
- Keep unauthorized personnel away. Ensure adequate ventilation. Use personal protection recommended in Section 8. In case of fire: Stop leak if safe to do so.
- For non-emergency personnel** Keep unauthorized personnel away.
- For emergency responders** Keep unauthorized personnel away. Use personal protection recommended in Section 8.
- 6.2. Environmental precautions** Avoid runoff to waterways and sewers.
- 6.3. Methods and material for containment and cleaning up**
- Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to waterways and sewers. It may be necessary to remove contaminated soil. If required, notify state and local authorities.
- Solids must be disposed of in a permitted waste management facility. Recovered liquid may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose in accordance with local, state and national regulations.
- 6.4. Reference to other sections** See Section 8 for exposure controls and personal protection. See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

- 7.1. Precautions for safe handling**
- Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact.
- 7.2. Conditions for safe storage, including any incompatibilities**
- Keep container tightly closed and dry. Store away from incompatible materials. Keep out of reach of children.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

**Occupational exposure limits** No information available

**Biological Limit Values** No information available

**8.2. Exposure controls**

**Engineering Measures** Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Use exhaust ventilation to keep airborne concentrations below exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.

**Personal protective equipment**

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<b>Eye/Face Protection</b>	Chemical goggles or face shield with safety glasses.
<b>Skin and Body Protection</b>	Use suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure.
<b>Hand Protection</b>	Protective gloves.
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection.
<b>Hygiene Measures</b>	Follow general hygiene considerations recognized as common good workplace practices. The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc. Remove and wash contaminated clothing before re-use.
<b>Environmental Exposure Controls</b>	Dispose of in accordance with local regulations.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance:**

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless to Clear
<b>Odor</b>	Moderate
<b>pH</b>	2.0 - 3.0 @ 68°F (20°C) (aqueous approx. 5% in DW)
<b>Boiling Point / Boiling Range</b>	>= 212 °F (100 °C)
<b>Freezing Point</b>	Not determined
<b>Flash Point</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Water Solubility</b>	Soluble
<b>Specific Gravity</b>	1.22 - 1.25 g/mL @ 68°F (20°C)
<b>Percent Volatile</b>	Not determined

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Stable under normal conditions
<b>10.2. Chemical stability</b>	Stable under normal conditions
<b>10.3. Possibility of hazardous reactions</b>	No specific hazard known
<b>10.4. Conditions to avoid</b>	Incompatible materials
<b>10.5. Incompatible materials</b>	Strong oxidizing agents
<b>10.6. Hazardous decomposition products</b>	Carbon oxides

**SECTION 11: Toxicological information**

**General Information** Users are advised to consider national Occupational Exposure Limits or other equivalent values.

**Information on Likely Routes of Exposure**

**Inhalation** Avoid inhalation of the product

**Skin** Causes skin irritation

**Eyes** Causes irritation, redness and pain.

**Ingestion** Ingestion is not a likely route of exposure

**11.1. Information on toxicological effects**

**Acute Toxicity** No data available

**Serious eye damage/eye irritation** Causes eye irritation

**Skin Corrosion/Irritation** Causes skin irritation

**Skin Sensitization** No data available

**Mutagenicity** No data available

**Carcinogenicity** No data available

**SECTION 12: Ecological information**

**12.1. Ecotoxicity** This product is a spray adjuvant. Large spills could possibly damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spilled substance from entering water supplies or water courses.

**12.2. Persistence and degradability** No data available

**12.3. Bioaccumulative potential** No data available

**12.4. Mobility in soil** No data available

**12.5. Results of PBT and vPvB assessment** No data available

**12.6. Other adverse effects** No information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

<b>Disposal Methods</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. Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14: Transport information****Mode of Transportation (Road, Water, Air, Rail)**

<b>IATA</b>	Not regulated
<b>IMDG/IMO</b>	Not regulated
<b>ICAO</b>	Not regulated

<b>14.1. UN number</b>	None
<b>14.2. UN proper shipping name</b>	None
<b>14.3. Transport hazard class(es)</b>	None
<b>14.4. Packing group</b>	None
<b>14.5. Environmental hazards</b>	No
<b>14.6. Special precautions for user</b>	Not applicable

**SECTION 15: Regulatory information****Global Inventories****Pure substance/mixture** Hazardous Mixture

Chemical Name	CAS Number	Canada (DSL)	Mexico	TSCA: United States
Mixture of Carboxylic Acids	--	Y	Y	A

**Legend**

Y: Complies ; A: Active ; - / N: Exempt / Not Listed

**EPA****SARA 302**

Not regulated

**CWA (Clean Water Act)**

Not regulated

**CAA (Clean Air Act)**

Not regulated

**U.S. State Right-to-Know Regulations**

Chemical Name	CAS Number	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Mixture of Carboxylic Acids	--	N	N	N	N	N

**Legend**

Y: Listed ; N: Not Listed

**CANADA****WHMIS**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

**SECTION 16: Other information****Prepared by**Miller Chemical and Fertilizer, A Huber Company, Global Regulatory Affairs  
regulatory.affairs@huber.com**Issue Date**

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**Reason for Version**

New Format.

**Abbreviations and acronyms**

OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 WHMIS (Workplace Hazardous Materials Information System)  
 GHS (Globally Harmonized System)  
 IARC (International Agency for Research on Cancer)  
 PPE (Personal Protection Equipment)  
 TWA (Time-Weighted Average)  
 TLV® (Threshold Limit Value)  
 STEL (Short Term Exposure Limit)  
 RQ (Reportable Quantity) (RQ/% in mixture)  
 DOT (Department of Transportation)



**MILLER CHEMICAL**

**Safety Data Sheet**  
**C.A.L.F.A.®**

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TDG (Transport of Dangerous Goods) Canada  
IATA (International Air Transport Association)  
IMDG (International Maritime Dangerous Goods)  
ICAO (International Civil Aviation Organization)

**Disclaimer**

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**End of Safety Data Sheet**