



# Safety Data Sheet

## Miller Citoleaf™

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** Miller Citoleaf™  
**Pure substance/mixture** Non-hazardous Mixture

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

**Recommended use** Liquid Fertilizer  
**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 not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### 2.2. Label elements

**Symbols/Pictograms** None  
**Signal Word** None  
**Hazard Statements** None

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**Precautionary Statements**

Additional information Not applicable

Hazards not otherwise classified (HNOC) None known

**SECTION 3: Composition/information on ingredients**

Pure substance/mixture Non-hazardous Mixture

Chemical Name	CAS Number	TSCA: United States	Canada (DSL)	Mexico	OSHA Regulatory Status	WHMIS	Weight-%
Non-Hazardous	--	A	Y	N	Not regulated	--	100

**Legend**

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

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

When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

**Eye Contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

**Skin Contact**

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Get medical attention.

**Ingestion**

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.

**Inhalation**

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**

None known.

**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**

None known.

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

Wear a self-contained breathing apparatus and chemical protective clothing.

**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. Use personal protection recommended in Section 8.

**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.

**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**

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Wear suitable protective clothing.

**Hand Protection** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

**Environmental Exposure Controls** 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>	Dark brown
<b>Odor</b>	Moderate
<b>pH</b>	3.5 - 4.5
<b>Boiling Point / Boiling Range</b>	>= 212 °F (100 °C)
<b>Freezing Point</b>	<32 °F (0 °C)
<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>	1.04 - 1.10 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>	Reducing 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** Contact with dust can cause mechanical irritation or drying of the skin

**Eyes** Dust contact with the eyes can lead to mechanical irritation

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

**11.1. Information on toxicological effects**

**Acute Toxicity** No data available

**Skin Corrosion/Irritation** No data available

**Skin Sensitization** No data available

**Mutagenicity** No data available

**SECTION 12: Ecological information**

**12.1. Ecotoxicity** Not considered to be harmful to aquatic life.

**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 extend 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>TDG -Canada</b>	Not regulated
<b>DOT</b>	Not regulated
<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** Non-hazardous Mixture

Chemical Name	CAS Number	Canada (DSL)	Mexico	TSCA: United States
Non-Hazardous	--	Y	N	A

**Legend**

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### EPA

**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
Non-Hazardous	--	N	N	N	N	N

**Legend**

Y: Complies ; - / 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

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**Reason for Version**

OSHA (Occupational Safety and Health Administration of the US Department of Labor).

**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)  
TDG (Transport of Dangerous Goods) Canada  
IATA (International Air Transport Association)  
IMDG (International Maritime Dangerous Goods)



**MILLER CHEMICAL**

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ICAO (International Civil Aviation Organization)

**Disclaimer**

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**End of Safety Data Sheet**