



Safety Data Sheet

Calcium Chelate

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 Calcium Chelate
Pure substance/mixture Substance

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

Recommended use Micro-nutrient.
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Manufacturer 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

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)

Physical Hazards Combustible dust

Health Hazards Not classified.

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Environmental Hazard Not classified.**2.2. Label elements****Symbols/Pictograms** None**Signal Word** Warning**Hazard Statements** May form combustible dust concentrations in air**Precautionary Statements****Additional information** Not applicable**Hazards not otherwise classified (HNOC)** Avoid dust development and deposition - dust explosion risk. Take precautionary measures against static discharges**Other** Labeling of special preparations (GHS): This product is not combustible in the form in which it is shipped by the manufacturer, but may form a combustible dust through downstream activities (e.g. grinding, pulverizing) that reduce its particle size.**SECTION 3: Composition/information on ingredients****Pure substance/mixture** Non-hazardous Substance

Chemical Name	CAS NUMBER:	Weight-%
Nitrilotriacetic acid	139-13-9	0.2

SECTION 4: First aid measures**4.1. Description of first aid measures****General Advice** Remove contaminated clothing.**Eye Contact** IF IN EYES: Wash affected eyes for at least 15 minutes under running water with eyelids held open.**Skin Contact** IF ON SKIN: Wash with plenty of soap and water.**Ingestion** If swallowed: Rinse mouth and then drink 200-300 ml of water.**Inhalation** If inhaled: Keep patient calm, remove to fresh air.**4.2. Most important symptoms and effects, both acute and delayed** No significant symptoms are expected due to the non-classification of the product.**4.3. Indication of any immediate medical attention and special treatment needed** Note to physician. Treatment - Symptomatic treatment (decontamination, vital functions).**SECTION 5: Firefighting measures**

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5.1. Extinguishing media**Suitable Extinguishing Media**

Dry powder. Foam.

Unsuitable Extinguishing MediaCarbon dioxide (CO₂).**5.2. Special hazards arising from the substance or mixture**

Hazards during fire-fighting: harmful vapours, nitrogen oxides, carbon oxides Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

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. Avoid dust formation. 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

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Nonsparking tools should be used.

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**

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion: Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry

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powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling. Dust explosion class: none.

7.2. Conditions for safe storage, including any incompatibilities For industrial use only. Store in a closed container. Keep in a dry, cool and well-ventilated place. Keep out of reach of children.

Storage stability:

Storage temperature: 5 - 40 °C

Protect from temperatures below: 5 °C

Protect from temperatures above: 40 °C.

Suitable container/equipment material High density polyethylene (HDPE), Polypropylene (PP). Paper/Fibreboard.

7.3. Specific end use(s) See Section 1.2.

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	For operations where exposure to dust may occur, wear a NIOSH N95 respirator.
Hygiene Measures	The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc.

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:**

Physical State	Free flowing fine granules
Color	White
Odor	Product Specific
pH	7.0
Melting point / Freezing point	Not applicable
Boiling Point / Boiling Range	Not applicable
Freezing Point	Not determined
Flash Point	Not applicable
Evaporation Rate	Not determined
Flammability (solid, gas)	Not highly flammable
Vapor Pressure	0.000001 hPa (20 °C)
Vapor Density	The product is a non-volatile solid.
Density	No data available
Bulk Density	750 kg/m ³
Water Solubility	350 g/l(20 °C)
Partition coefficient	-10.42
Autoignition Temperature	> 530 °C
Decomposition Temperature	240 °C
Viscosity	No information available.
Kinematic viscosity	No data available
Oxidizing Properties	Not applicable
Particle Size	D90 367 µm
Percent Volatile	No data available
VOC Content (%)	Not applicable

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

No data available

9.2.2. Other safety characteristics

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity	Stable under normal conditions
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	Dust Explosion Hazard
10.4. Conditions to avoid	Exposure to extreme heat or open flames. Dust formation
10.5. Incompatible materials	Strong oxidizing agents Strong acids Strong Bases
10.6. Hazardous decomposition	None known

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products

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	Avoid contact with skin and clothing
Eyes	Avoid contact with eyes
Ingestion	Do not induce vomiting without medical advice If conscious, wash out mouth and give water to drink

11.1. Information on toxicological effects**Nitilotriacetic acid**

Group 2B - Possibly Carcinogenic to Humans NTP (National Toxicology Program) Acute Toxicity	Monograph 73 [1999] Monograph 48 [1990] Male Rat - Clear Evidence; Female Rat - Clear Evidence; Male Mice - Clear Evidence; Female Mice - Clear Evidence LD50 Oral (rat) > 5000 mg/kg LC50 Inhal. (rat) > 1.13 mg/l LD50 Oral (rat) > 2000 mg/kg
Respiratory Sensitization	A sensitizing effect on particularly sensitive individuals cannot be excluded. Based on available Data, the classification criteria are not met.
Serious eye damage/eye irritation	Slightly irritating (rabbit)
Skin Corrosion/Irritation	Non-irritant (rabbit)
Skin Sensitization	Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Mutagenicity	No data available Not mutagenic
Reproductive Toxicity	The results of animal studies gave no indication of a fertility impairing effect.
Carcinogenicity	In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties	No endocrine disruptors present in concentrations $\geq 0.1\%$
11.2.2. Other information	Not applicable

SECTION 12: Ecological information

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12.1. Toxicity	Not considered to be harmful to aquatic life
<u>Nitrilotriacetic acid</u>	
WGK Classification (AwSV)	160 WGK: 2
12.2. Persistence and degradability	Poorly biodegradable.
12.3. Bioaccumulative potential	Does not accumulate in organisms.
Partition coefficient	-10.42
12.4. Mobility in soil	Adsorption to solid soil phase is not expected.
12.5. Results of PBT and vPvB assessment	No data available
12.6. Endocrine disrupting properties	No endocrine disruptors present in concentrations $\geq 0.1\%$
12.7. Other Adverse Effects	None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Methods	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.
Contaminated Packaging	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)

TDG -Canada	Not regulated
DOT	Not regulated
ADR	Not regulated
RID	Not regulated
ADN	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

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

14.7. Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information

Global Inventories

Pure substance/mixture Non-hazardous Substance

Chemical Name	CAS Number	Canada (DSL)	Mexico	TSCA: United States
Nitriлотriacetic acid	139-13-9	Present (DSL)	Y	Present

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

EPA

CERCLA

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
Nitriлотriacetic acid	139-13-9	NSRL Carcinogen	Carcinogen Extraordinarily hazardous	Carcinogen	1358	Environmental hazard Special hazardous substance

Y: Listed ; N: Not Listed

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product can expose you to chemicals including NITRILOTRIACETIC ACID AND ITS SALTS, which is known to the State of California to cause cancer, and CYANIDE SALTS, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

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)
ICAO (International Civil Aviation Organization)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet