Safety Data Sheet

Reflections®

OSHA HCS 2024
Canadian Workplace Hazardous Material Information System (WHMIS) 2015 rev 2022
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015
GHS (Globally Harmonized System)

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

1.1. Product identifier

Product name Reflections®

Pure substance/mixture Mixture

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

Recommended use 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

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)

GHS Classification This product is not classified as hazardous according to the UN GHS guideline and labeling is not required

2.2. Label elements

Symbols/Pictograms None

Signal Word None

Hazard Statements None

Precautionary Statements

Prevention -

Response -

Storage -

Disposal -

Additional information Not applicable

Hazards not otherwise classified (HNOC) None known

Hazards associated with known or reasonably anticipated uses None known

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

SECTION 3: Composition/information on ingredients

Pure substance/mixture Mixture

Chemical Name	CAS NUMBER:	Weight-%
Limestone	1317-65-3	30 - 40%
Calcium acetate	62-54-4	< 5%

Additional information *The exact percentage (concentration) of composition has been withheld as a trade secret.

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. In case of an accident or if feeling unwell, seek medical advice immediately.

Eye Contact Rinse/flush eyes with water from the eye wash fountain for several minutes – at least 15 minutes, lifting lower and upper eyelids occasionally. Check for and remove any contact lenses if easy to do so after 5 minutes of rinsing. Do not rub eye/s. Obtain medical attention if irritation occurs or persists.

Skin Contact Remove all contaminated clothing. Rinse the skin with plenty of water for 15 to 20 minutes under the safety shower. Do not rub the skin. Obtain medical attention if irritation occurs and persist. Wash clothing before re-use.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting unless directed by medical personnel. If spontaneous vomiting occurs, have the person lean forward with head down to avoid breathing in of vomits. Never give anything by mouth to an unconscious person. Seek medical advice or contact a Poison Centre.

Inhalation Remove the affected patient from the exposure area to fresh air. Keep person at rest and warm. If breathing is difficult, have a qualified person administer oxygen. If breathing has stopped, give artificial respiration. 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
Water spray (fog). If water is not available, use dry chemical powder for small fires and CO2 for large fires.

Unsuitable Extinguishing Media
Do not use high volume water jets due to potential contamination and the spreading of burning material.

5.2. Special hazards arising from the substance or mixture None known
The formation of harmful and irritating gases are possible during heating or in case of combustion of the product.In case of fire, the following could be released: oxides of calcium and carbon dioxide (CO2).Fire water contaminated with the product must be contained and prevented from being discharged to any waterway, sewer or drain.

5.3. Advice for firefighters

Special protective equipment for firefighters
Firefighters should be equipped with self-contained positive pressure breathingapparatus and full bunker gear.

Fire-fighting measures
Water mist may be used to cool closed containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep unauthorized personnel away. In case of fire: Stop leak if safe to do so. Avoid contact with skin and eyes. 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

For small spills:
Soak up the spilt product with suitable inert absorbent material. Apply enough absorbent material to completely cover the spilt product. Shovel up the spilt material and place into a labelled waste container. Label and cover the container for subsequent safe disposal.

For large spills:
Contain/dyke/cover to prevent dispersal using absorbent socks, pillows or pads supplied from the spill kit. Collect the spilt product and place it into suitable labelled containers for proper disposal. Flush spill area with water to remove any residues and contain the wash water. Keep product and wash water out of drains, sewers, ditches, and waterways. Dig up heavily 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. Do not breathe vapor or mist. Wash hands after handling. Wear appropriate personal protective clothing to prevent skin contact.

7.2. Conditions for safe storage, including any incompatibilities

Keep from freezing. Keep at temperatures between 40°F to 100°F. Store locked up. Keep away from heat and sunlight. Keep in a dry, cool and well-ventilated place. Keep out of reach of children. Store only in the original container.

7.3. Specific end use(s)

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Limestone - 1317-65-3

OSHA	5 mg/m³ (respirable fraction) 15 mg/m³ (total dust)
OSHA - Final PELs -TWA	15 mg/m³ TWA 5 mg/m³ TWA
Canada	10 mg/m³

Canada - British Columbia - OEL-STELs	20 mg/m³

DNEL (Derived No Effect Level) 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 Chemical goggles or face shield with safety glasses. Always wear eye protection when working with chemicals. Never wear contact lenses when working withchemicals.

Skin and Body Protection Clean protective body covering, rubber apron, and rubber boots.

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. When exposure to spray mist is expected, in case of discomfort, when handling in an enclosed area or when prolonged exposure is possible, an approved respirator (full face mask) with a particulate filter and an organic vapour cartridge or supplied air respirator should be used.

Hygiene Measures 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 shownin Section 4. Launder contaminated clothing before use.

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	Liquid
Color	White
pH:	7.0 - 9.0
Melting Point / Melting Range	Not applicable
Melting point / Freezing point	Not applicable
Boiling Point / Boiling Range	>= 212 °F (100 °C)
Boiling Point	>100 °C
Freezing Point	<32 °F (0 °C)
Flash Point	Not determined
Evaporation Rate	Not determined
Flammability	Not determined
Vapor Pressure	Not determined
Relative Vapor Density	Not determined
Density	No data available
Water Solubility	Dispersible
Partition coefficient	No information available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No information available.
Kinematic viscosity	No data available
Oxidizing Properties	Not applicable
Particle Characteristics	No information available
Specific Gravity	1.2 to 1.3
Percent Volatile	<62.0
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	Hazardous polymerization does not occur
10.4. Conditions to avoid	Keep from direct sunlight.
10.5. Incompatible materials	None known
10.6. Hazardous decomposition products	Thermal decomposition products: Carbon dioxide (CO2) Carbon monoxide (CO)

Oxides of calcium

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 No adverse effects from available information

Eyes No adverse effects, based upon available information

Ingestion None known

11.1. Information on toxicological effects

Limestone

Oral LD50	6450 mg/kg Rat

Calcium acetate

LD50s and LC50s	> 20000 mg/kg Dermal LD50 > 5.6 mg/L Inhalation LC50 = 4280 mg/kg Oral LD50
Oral LD50	4280 mg/kg (rat)

Reflections®

Acute Toxicity Based on available data, the classification criteria are not met.

Respiratory Sensitization Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation Based on available data, the classification criteria are not met.

Skin Sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Reproductive Toxicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Specific target organ toxicity - Single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - Repeated exposure Based on available data, the classification criteria are not met.

Mixture versus substance information Mixture

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties No endocrine disruptors present in concentrations >= 0.1%

11.2.2. Other information Not applicable

SECTION 12: Ecological information

12.1. Toxicity Not considered to be harmful to aquatic life

Limestone

WGK Classification (AwSV) 317 WGK: nwg

Calcium acetate

Persistence / Degradability Calcium carbonate is considered not persistent and readily degradable in the environment due to its inorganic nature. It readily breaks down into calcium (Ca2*) and carbonate ions (CO32-) which are naturally occurring and ubiquitous in soil and water.

Bioaccumlative potential: Calcium and carbonate ions are essential to all living organisms and their intracellular and extracellular concentrations are actively regulated. Thus, calcium carbonate is not expected to bioaccumulate.

WGK Classification (AwSV) 1943 WGK: 1

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. Endocrine disrupting properties No endocrine disruptors present in concentrations >= 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. Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the product. Triple rinse container (or equivalent) promptly after emptying.Note: Non-refillable container. Do not reuse for any purposes or refill the container.

SECTION 14: Transport information

Mode of Transportation (Road, Water, Air, Rail)

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

14.1. UN number None

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 Mixture

Chemical Name	CAS NUMBER:	Canada (DSL)	Mexico	TSCA: United States
Limestone	1317-65-3	Y (NDSL)	Y	A
Calcium acetate	62-54-4	Y	Y	A

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

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
Limestone	1317-65-3	N	Y	Y	sn 4001	Y
Calcium acetate	62-54-4	N	N	N	N	N

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
Limestone
H350; H372

SECTION 16: Other information

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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