

SAFETY DATA SHEET

KEYLATE COMO CLASSIC

1. Product and Company Identification

Product Code: Z-KEYCOMO23
Product Name: KEYLATE COMO CLASSIC
Company Name: Stoller
9090 Katy Freeway
Suite 400
Houston, TX 77024
Phone Number:
1 (713)461-1493
Web site address: www.stollerusa.com
Email address: compliance@stollerusa.com
Emergency Contact: CHEMTREC, In the US and Canada call 1 (800)424-9300
CHEMTREC, From other countries call +1 (703)527-3887
Information: 1 (800)539-5283
Intended Use: For agricultural use only

2. Hazards Identification

Acute Toxicity: Inhalation, Category 5
Acute Toxicity: Oral, Category 4
Serious Eye Damage/Eye Irritation, Category 2B
Acute Toxicity: Skin, Category 5



GHS Signal Word: **Warning**
GHS Hazard Phrases: H302 - Harmful if swallowed.
H313 - May be harmful in contact with skin.
H320 - Causes eye irritation.
H333 - May be harmful if inhaled.
GHS Precautionary Phrases: P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
GHS Response Phrases: P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P330 - Rinse mouth.
P337+313 - If eye irritation persists, get medical advice/attention.
GHS Storage and Disposal Phrases: P501 - Dispose of contents/container to permitted waste facility.
Potential Health Effects (Acute and Chronic): Acute: Depending on the duration of contact, overexposure can irritate the eyes, skin, mucous membranes and any other exposed tissue.
Chronic: Not known.
Inhalation: Prolonged exposure to low concentrations of vapors may cause irritation to throat and upper respiratory tract, headache, nausea, dizziness, and even unconsciousness.
Skin Contact: May be harmful if absorbed through the skin. Prolonged and/or repeated contact may cause irritation and/or dermatitis.
Eye Contact: Contact with product may cause redness, slight to severe eye irritation.
Ingestion: Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

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3. Composition/Information on Ingredients

CAS #	Components (Chemical Name)	Concentration	RTECS #
10026-24-1	Cobalt sulfate heptahydrate	<10.0 %	GG3200000
17863-38-6	ethanol, 2-amino-2-hydroxy-1,2,3-propanetricarboxylate	<30.0 %	NA
7631-95-0	Sodium molybdate(VI)	<10.0 %	QA5075000

4. First Aid Measures

Emergency and First Aid Procedures:	Victims of severe exposure to chemicals must be taken to health providing centers for medical attention. Always bring with victim a copy of label and SDS of product to health professional.
In Case of Inhalation:	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.
In Case of Skin Contact:	Wipe off product and immediately wash affected area with abundant soap and water. Remove contaminated clothing taking care not to impregnate eyes. Seek medical attention if irritation occurs. Wash clothing before reuse.
In Case of Eye Contact:	Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
In Case of Ingestion:	Immediately contact a physician or poison control center for treatment advice. Victim should drink milk, egg whites or large quantities of water and be induced to vomiting. Never give anything by mouth to someone who is unconscious, having convulsions or unable to swallow.
Signs and Symptoms Of Exposure:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Chronic manganese poisoning primarily involves the central nervous system. Early symptoms include languor, sleepiness and weakness in the legs. High incidence of pneumonia has been found in workers exposed to the dust or fume of some manganese compounds. The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Note to Physician:	Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt:	N.A.
Explosive Limits:	LEL: N.A. UEL: N.A.
Autoignition Pt:	N.A.
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.
Unsuitable Extinguishing Media:	None known.
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Flammable Properties and Hazards:	Toxic fumes may be generated under fire conditions.
Hazardous Combustion Products:	None known.

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6. Accidental Release Measures

**Protective Precautions,
Protective Equipment and
Emergency Procedures:**

In case of a large spill, protect people by clearing and isolating the affected area. Such releases should be responded to by trained personnel using pre-planned procedures. In the event of an incidental release, minimum Personal Protective Equipment must be worn: latex or rubber gloves and rubber boots, goggles or full face-shield and coveralls or long-sleeved shirt and pants.

Environmental Precautions:

Do not allow to enter drains or waterways.

**Steps To Be Taken In Case
Material Is Released Or
Spilled:**

It is necessary to contain the spill into the smallest area possible by diking, scooping, etc., and recover liquid into an appropriate container, labeling it accordingly. If product is clean, use it as intended, following original label directions; should it get contaminated, salvage for proper disposal as waste.

Absorb residual product onto dry carrier such as dirt, sand or any other absorbent material, then put in covered, labeled containers and dispose of as dry waste in accordance with Federal, State and Local waste disposal regulations.

7. Handling and Storage

**Precautions To Be Taken in
Handling:**

Use with adequate ventilation. Avoid breathing dust, mist, or vapor. Avoid contact with eyes, skin, or clothing. Avoid ingestion and inhalation. Empty containers may contain residual liquid or vapors and therefore should be handled the same as full containers.

**Precautions To Be Taken in
Storing:**

Inspect all incoming containers before storage to ensure all are properly labeled and not damaged. Keep containers tightly closed when not in use. Store in a cool, dry place, away from direct sunlight, sources of intense heat or where freezing is possible. Store away from food, feed, clothing materials and living quarters. Whenever possible, place chemicals on secondary containers or diked area. Store a maximum of three pails high; do not stack pallets. Store Keylate Micronutrients in fiberglass, polyethylene or polyolefin.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
10026-24-1	Cobalt sulfate heptahydrate	No data.	TLV: 100 mg/m ³ as Co	No data.
17863-38-6	ethanol, 2-amino-2-hydroxy-1,2,3-propanetricar boxylate	No data.	No data.	No data.
7631-95-0	Sodium molybdate(VI)	No data.	No data.	No data.

**Recommended Exposure
Limits:**

No occupational exposure limits have been established for this mixture.

**Respiratory Equipment
(Specify Type):**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Eye Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Protective Gloves:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Minimum layer thickness: 0.11 mm Break through time: 480 min.

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Revision: 10/31/2018
Supersedes Revision: 03/24/2016

	This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers.
Other Protective Clothing:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear long sleeve shirt, long pants, and protective shoes with socks.
Engineering Controls (Ventilation etc.):	General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions. An eye bath and washing facilities should be readily available.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove all dirty or contaminated clothing and wash it before reusing, as well as any other PPE.
Environmental Exposure Controls:	Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment wash water.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Clear magenta color. Slight proprietary, characteristic odor.
pH:	7.6 - 9.6 N.D.
Melting Point:	N.A.
Boiling Point:	N.A.
Flash Pt:	N.A.
Evaporation Rate:	N.E.
Flammability (solid, gas):	Material will not burn.
Explosive Limits:	LEL: N.A. UEL: N.A.
Vapor Pressure (vs. Air or mm Hg):	N.E.
Vapor Density (vs. Air = 1):	N.E.
Specific Gravity (Water = 1):	1.21 - 1.25 N.D.
Density:	~ 10.3 LB/GA N.D.
Solubility in Water:	NA
Saturated Vapor Concentration:	N.E.
Octanol/Water Partition Coefficient:	N.E.
Percent Volatile:	N.A.
Autoignition Pt:	N.A.
Decomposition Temperature:	N.E.
Viscosity:	N.E.

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10. Stability and Reactivity

Reactivity:	N.A.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Stable under normal condition, but avoid extreme heat and contact with incompatible materials.
Incompatibility - Materials To Avoid:	Strong oxidizing agents.
Hazardous Decomposition or Byproducts:	Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx), toxic fumes of zinc oxide.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	None known.

11. Toxicological Information

Toxicological Information:	<p>Mutagenicity: This product has not been investigated for mutagenic effects. Embryotoxicity: This product has not been investigated for embryotoxic effects. Teratogenicity: This product has not been investigated for teratogenic effects. Reproductive Toxicity: This product has not been investigated for toxic reproductive effects.</p> <p>CAS# 10026-24-1: Acute toxicity, LD50, Oral, Rat, 582.0 MG/KG. Result: Behavioral: Somnolence (general depressed activity). Behavioral: Ataxia. Gastrointestinal:Hypermotility, diarrhea. ; Acute Toxicity Data. Journal of the American College of Toxicology, Part B., Mary Ann Liebert, Inc., 1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,688, 1992</p>
Irritation or Corrosion:	No data available.
Symptoms related to Toxicological Characteristics:	No data available.
Sensitization:	No data available.
Chronic Toxicological Effects:	The toxicological properties of this material have not been fully investigated.
Carcinogenicity/Other Information:	<p>CAS# 10026-24-1: ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans. California: carcinogen, initial date 6/2/00. NTP: Not listed.</p> <p>The carcinogenic properties of this product have not been thoroughly investigated. Cobalt, a component of cobalt sulfate, is listed as a possible carcinogenic by NTP. The other components of this product are not reported as carcinogenic by NTP, IARC, OSHA, CAL/OSHA, and ACGIH.</p>
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

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12. Ecological Information

General Ecological Information:	No environmental impact studies have been performed with this product. The available data on this plant nutrient material does not indicate any undue hazard to the environment under anticipated use and storage. All work practices must be aimed at preventing environmental contamination. Any waste due to spillage or leakage should be contained and disposed of accordingly, see above under Section 6 "Accidental Release Measures."
Results of PBT and vPvB assessment:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

13. Disposal Considerations

Waste Disposal Method:	<p>This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority. Dispose of empty container in a sanitary landfill or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Avoid contaminating water by disposal of equipment wash waters or other product wastes.</p> <p>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.</p>
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14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.
Trade Name: KEYLATE COMO CLASSIC

DOT Hazard Class:
UN/NA Number:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.
Trade Name: KEYLATE COMO CLASSIC

UN Number: **Packing Group:**
Hazard Class:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.
Trade Name: KEYLATE COMO CLASSIC

UN Number: **Packing Group:**
Hazard Class:

Additional Transport Information:

Placards / Markings: N.A.

Reportable Quantity: N.A.

Emergency Response Guide Number: N.A.

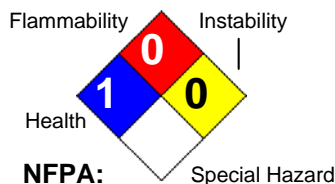
15. Regulatory Information

Regulatory Information: TSCA Inventory: In compliance with inventory requirements for commercial purposes.

16. Other Information

Revision Date: 10/31/2018

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

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