

SAFETY DATA SHEET

GOLDEN HARVEST

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Printed: 03/23/2021

Revision: 03/23/2021

Supersedes Revision: 10/31/2018

This SDS complies with the Canadian Hazardous Products Regulations of 2015.

1. Product and Company Identification

Product Code: Z-GOLDENHARVEST
Product Name: GOLDEN HARVEST
Trade Name: GOLDEN HARVEST
Company Name: Stoller Enterprises
284 Industrial Drive
Regina, SK,
Web site address: <http://stollerenterprises.ca/>
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: For agricultural use only 1 (800)539-5283

2. Hazards Identification

Serious Eye Damage/Eye Irritation, Category 2

Acute Toxicity: Skin, Category 4

Acute Toxicity: Oral, Category 5

Skin Corrosion/Irritation, Category 1B



GHS Signal Word: **Danger**

GHS Hazard Phrases: H303 - May be harmful if swallowed.
H312 - Harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H319 - Causes serious eye irritation.

GHS Precautionary Phrases: P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+352 - IF ON SKIN: Wash with plenty of soap and water.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P321 - Specific treatment see ... on this label.
P337+313 - If eye irritation persists, get medical advice/attention.
P362+364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.

GHS Storage and Disposal Phrases: P405 - Store locked up.
P501 - Dispose of contents/container to permitted waste facility.

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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.
Inhalation:	Causes respiratory tract irritation.
Skin Contact:	May be harmful if absorbed through skin. May cause skin irritation.
Eye Contact:	Causes eye irritation. Causes redness and pain.
Ingestion:	Harmful if swallowed. May cause irritation of the digestive tract. May cause nausea and vomiting.
Medical Conditions Generally Aggravated By Exposure:	Any eye condition that compromises tear production, conjunctiva, or normal corneal homeostasis.

3. Composition/Information on Ingredients

CAS #	Components (Chemical Name)	Concentration	
10043-35-3	Boric acid	< 0.5 %	
10102-40-6	Sodium molybdate	< 0.2 %	
7447-40-7	Potassium chloride	< 5.0 %	
7664-38-2	Phosphoric acid	<30.0 %	
7646-85-7	Zinc chloride	< 1.0 %	
77-92-9	Citric acid	< 6.0 %	
7758-99-8	Copper(II) sulfate pentahydrate	< 0.5 %	
7773-01-5	Manganese chloride	< 1.0 %	
7786-30-3	Magnesium chloride	< 4.0 %	
7758-94-3	Ferrous chloride	< 1.0 %	
10026-24-1	Cobalt sulfate heptahydrate	< 0.1 %	
57-13-6	Urea	<12.0 %	

4. First Aid Measures

Emergency and First Aid Procedures:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
In Case of Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing give artificial respiration. If breathing becomes difficult, call a physician.
In Case of Skin Contact:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Consult a physician.
In Case of Eye Contact:	Call a physician if irritation persists. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.
In Case of Ingestion:	Drink plenty of water. Call a physician or poison control center immediately for advice on inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person.
Signs and Symptoms Of Exposure:	Solution and/or solids may be visible on the skin and/or eyes. Localized redness, warmth, and irritation consistent with mechanism of injury: abrasion, burn, hypertonic solution.
Indication of any immediate medical attention and special treatment needed:	No data available.
Note to Physician:	Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt:	No data.
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	No data.
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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:	Sulfur oxides, Manganese/manganese oxides. Copper oxides.
Hazardous Combustion Products:	N.A.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
Environmental Precautions:	If spilling or leakage occurs, contain and clean if safe to do so. Prevent from reaching drains, sewer, or waterways. Do not let product enter drains. Discharge into the environment must be avoided. Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste.
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 the product 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 collect 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:	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Provide appropriate exhaust ventilation at places where dust is formed.
Precautions To Be Taken in Storing:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in a dry place. Hygroscopic. Store in a cool, dry place, away from food, feed, clothing materials and living quarters. Whenever possible, place chemicals on secondary containers or diked area. Inspect all incoming containers before storage to ensure all are properly labeled and not damaged. Keep containers tightly closed when not in use. Moisture sensitive.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
10043-35-3	Boric acid	No data.	TLV: 2 mg/m ³ STEL: 6 mg/m ³	No data.
10102-40-6	Sodium molybdate	PEL: 5 mg/m ³ as Mo	TLV: 5 mg/m ³ as Mo	No data.
7447-40-7	Potassium chloride	No data.	TLV: 10 mg/m ³	No data.

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7664-38-2	Phosphoric acid	PEL: 1 mg/m ³	TLV: 1 mg/m ³ STEL: 3 mg/m ³	No data.
7646-85-7	Zinc chloride	PEL: 1 mg/m ³	TLV: 1 mg/m ³ STEL: 2 mg/m ³	No data.
77-92-9	Citric acid	No data.	No data.	No data.
7758-99-8	Copper(II) sulfate pentahydrate	No data.	TLV: 1 mg/m ³ as Cu	No data.
7773-01-5	Manganese chloride	CEIL: 5 mg/m ³	TLV: 0.2 mg/m ³ as Mn	No data.
7786-30-3	Magnesium chloride	No data.	No data.	No data.
7758-94-3	Ferrous chloride	No data.	TLV: 1 mg/m ³ as Fe	No data.
10026-24-1	Cobalt sulfate heptahydrate	No data.	TLV: 100 mg/m ³ as Co	No data.
57-13-6	Urea	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 must be followed whenever workplace conditions warrant a respirator's 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. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses with side-shields conforming to EN166. Safety glasses.

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.

Other Protective Clothing:

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. It should not be construed as offering an approval for any specific use scenario.

Complete suit protecting against chemicals. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Impervious clothing. Wear long sleeve shirt and long pants, waterproof gloves and shoes plus 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. Wash hands before breaks and at the end of workday. Remove all dirty or contaminated clothing and wash it before reusing, as well as any other PPE.

Environmental Exposure Controls:

If spilling or leakage occurs, contain and clean if safe to do so. Prevent from reaching drains, sewer, or waterways. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and Chemical Properties

Physical States:	[] Gas	[X] Liquid	[] Solid
Appearance and Odor:	Clear amber to light brown color. Slight ammonia odor.		
pH:	< 1.0		
Melting Point:	No data.		
Boiling Point:	No data.		
Flash Pt:	No data.		
Evaporation Rate:	No data.		
Flammability (solid, gas):	No data available.		
Explosive Limits:	LEL: No data.	UEL: No data.	
Vapor Pressure (vs. Air or mm Hg):	No data.		
Vapor Density (vs. Air = 1):	No data.		
Specific Gravity (Water = 1):	1.26 - 1.30		
Density:	~ 10.8		
Solubility in Water:	No data.		
Octanol/Water Partition Coefficient:	No data.		
Autoignition Pt:	No data.		
Decomposition Temperature:	No data.		
Viscosity:	No data.		

10. Stability and Reactivity

Reactivity:	No data available.		
Stability:	Unstable []	Stable [X]	
Conditions To Avoid - Instability:	Stable under normal conditions.		
Incompatibility - Materials To Avoid:	Strong oxidizing agents.		
Hazardous Decomposition or Byproducts:	Sulfur dioxide, carbon dioxide.		
Possibility of Hazardous Reactions:	Will occur []	Will not occur [X]	
Conditions To Avoid - Hazardous Reactions:	No data available.		

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. CAS# 10043-35-3: Boric acid: Acute toxicity, LD50, Oral, Rat, 2660. MG/KG. Result: Gastrointestinal:Hypermotility, diarrhea. Gastrointestinal:Nausea or vomiting. - Journal of the American Medical Association, American Medical Association, 535 N. Dearborn St., Chicago, IL 60610, Vol/p/yr: 128,266, 1945</p> <p>CAS# 7664-38-2: Phosphoric acid: Acute toxicity, LD50, Oral, Rat, 1530. MG/KG. Result: Behavioral: Somnolence (general depressed activity). Kidney, Ureter, Bladder:Hematuria. Skin and Appendages: Other: Hair. - BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 17-4, 1970</p> <p>Acute toxicity, LD50, Skin, Species: Rabbit, 2740. MG/KG. Result: Behavioral: Somnolence (general depressed activity). Behavioral: Excitement. - BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 17-4, 1970</p> <p>CAS# 7758-99-8: Copper(II) sulfate pentahydrate: Acute toxicity, LD50, Oral, Rat, 300.0 MG/KG. Result: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Change in motor activity (specific assay). Behavioral: Antipsychotic. - "Agricultural Chemicals," 1976/77 revision, Thomson, W.T., 4 vols., Thomson Publications, Fresno, CA, Vol/p/yr: 2,182, 1977</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:	The carcinogenic properties of this product have not been thoroughly investigated.
Carcinogenicity:	NTP? N.A. IARC Monographs? N.A. OSHA Regulated? N.A.

12. Ecological Information

General Ecological Information:	No environmental impact studies have been performed with this product. The available data on the ingredients of this plant nutrient product does not indicate any undue hazard to the environment under anticipated use and storage. Any waste due to spillage or leakage should be contained and disposed of accordingly, see Section 6 "Accidental Release Measures." Due to its nutritional nature, may cause eutrophication if discharged in bodies of water. Due to its nutrient value, may contribute to eutrophication in bodies of water.
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:	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. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Contaminated packaging: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Observe all federal, state, and local environmental regulations.
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14. Transport Information

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name:	Corrosive liquid, N.O.S. (Contains Phosphoric acid and Zinc chloride)		
UN Number:	1760	Packing Group:	II
Hazard Class:	8 - CORROSIVE	TDG Classification:	

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name:	Corrosive liquid, N.O.S. (Contains Phosphoric acid and Zinc chloride)		
UN Number:	1760	Packing Group:	II
Hazard Class:	8 - CORROSIVE		

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Corrosive liquid, N.O.S. (Contains Phosphoric acid and Zinc chloride)		
UN Number:	1760	Packing Group:	II
Hazard Class:	8 - CORROSIVE		

15. Regulatory Information

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

16. Other Information

Revision Date: 03/23/2021

Previous revision: 10/31/2018

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer: