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This SDS complies with the Canadian Hazardous Products Regulations of 2015

1. Product and Company Identification

Z-SUGARM Product Code: **Product Name:** SUGAR MOVER

Stoller **Company Name: Phone Number:** 9090 Katy Freeway 1 (713)461-1493

Suite 400

Houston, TX 77024 www.stollerusa.com

Web site address: **Email address:** stoller@stollerusa.com

CHEMTREC, In the US and Canada call 1 (800)424-9300 **Emergency Contact:**

CHEMTREC, From other countries call +1 (703)527-3887 1 (800)539-5283

For agricultural use only Intended Use:

Chelated micronutrient solution. Synonyms:

2. Hazards Identification

Acute Toxicity: Skin, Category 4 Acute Toxicity: Inhalation, Category 5 Acute Toxicity: Oral, Category 5

Serious Eye Damage/Eye Irritation, Category 2B



Information:

GHS Signal Word: Warning

GHS Hazard Phrases: H303 - May be harmful if swallowed. H312 - Harmful in contact with skin.

H320 - Causes eye irritation. H333 - May be harmful if inhaled.

GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P302+352 - IF ON SKIN: Wash with plenty of soap and water.

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. P337+313 - If eye irritation persists, get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

GHS Storage and Disposal

Phrases:

P501 - Dispose of contents/container to ...

Potential Health Effects

(Acute and Chronic):

Hazards not otherwise classified (HNOC) or not covered by GHS: None.

None. Inhalation:

Skin Contact: May be harmful in contact with skin.

Eye Contact: Causes eye irritation. Ingestion: Harmful if swallowed.

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3. Composition/Information on Ingredients					
CAS#	Components (Chemical Name)	Concentration	RTECS#		
10043-35-3	Boric acid	<55.0 %	ED4550000		
7447-39-4	Cupric chloride	< 0.3 %	GL7000000		

4. First Aid Measures

Emergency and First Aid

Procedures:

Consult a physician. Show this safety data sheet to the doctor in attendance.

Wash off with soap and plenty of water. Consult a physician. In Case of Skin Contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if In Case of Eye Contact:

present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell. Give 2-3 glasses of water In Case of Ingestion:

> if victim is conscious and alert. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Obtain medical attention immediately if ingested. Do not leave victim unattended. Wear impervious gloves while decomtaminating skin and

No data available.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Indication of any immediate

medical attention and special

treatment needed:

5. Fire Fighting Measures

Flash Pt: NA Method Used: Estimate **Explosive Limits:** LEL: N.A. UEL: N.A.

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: Wear self contained breathing apparatus for fire fighting if necessary.

Further information: No data available.

Flammable Properties and

Hazards:

Sodium oxides.

Hazardous Combustion

No data available.

Products:

6. Accidental Release Measures

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

In case of a large spill, clear the affected area and protect people. 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 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.

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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:

Use with adequate ventilation. Avoid breathing (dust, vapor, mist, gas). Avoid contact with eyes, skin, and 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
10043-35-3	Boric acid	No data.	TLV: 2 mg/m³ STEL: 6 mg/m³	No data.
7447-39-4	Cupric chloride	No data.	No data.	No data.

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.

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.

Material: Nitrile rubber Minimum layer thickness: 0.11 mm.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. 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.

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.

Engineering Controls (Ventilation etc.):

General ventilation is usually adequate. Local exhause 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 by cleaning of

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equipment or disposal of equipment wash waters. 9. Physical and Chemical Properties [] Gas [X] Liquid [] Solid **Physical States:** Clear, blue Appearance and Odor: No odor. pH: 7.5-9.5 Melting Point: 100.00 C (212.0 F) **Boiling Point:** > 206.00 F (96.7 C) Flash Pt: NA Method Used: Estimate Evaporation Rate: Similar to water Product is non-flammable. Flammability (solid, gas): **Explosive Limits:** LEL: N.A. UEL: N.A. Vapor Pressure (vs. Air or ΝE mm Hg): ΝE Vapor Density (vs. Air = 1): Specific Gravity (Water = 1): 1.26 - 1.3 Density: 10.8 LB/GA Soluble Solubility in Water: Octanol/Water Partition No data. Coefficient: **Autoignition Pt:** No data. **Decomposition Temperature:** No data. Viscosity: No data. 10. Stability and Reactivity Reactivity: No data available. Unstable [] Stability: Stable [X] **Conditions To Avoid -**No data available. Instability: Incompatibility - Materials To Strong oxidizing agents. Avoid: Hazardous Decomposition or No data available. In the event of fire: see section 5. Byproducts: Possibility of Hazardous Will occur [] Will not occur [X] Reactions: Conditions To Avoid -No data available. Hazardous Reactions:

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11. Toxicological Information

Mutagenicity: This product has not been investigated for mutagenic effects. Toxicological Information:

> 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.

No data available. Irritation or Corrosion: No data available. Symptoms related to

Toxicological Characteristics:

Sensitization: **Chronic Toxicological** The sensitizing properties of this product have not been thorougly investigated.

Effects:

The toxicological properties of this material have not been fully investigated.

Carcinogenicity/Other

The carcinogenic properties of this product have not been thoroughly investigated. The components of this product are not listed as a carcinogenic by CPDB, IARC, NTP,

OSHA, CAL/OSHA and ACGIH.

NTP? No IARC Monographs? No OSHA Regulated? No Carcinogenicity:

12. Ecological Information

General Ecological

No environmental impact studies have been performed with this product.

Information:

Information:

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 eliminating environmental contamination. 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 dicharged in bodies of water.

Results of PBT and vPvB

assessment:

No data available.

Persistence and

Degradability:

No data available.

Bioaccumulative Potential:

No data available.

No data available. Mobility in Soil:

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. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and

accurate classification. 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. 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.

14. Transport Information

13. Disposal Considerations

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LAND TRANSPORT (Canadian TDG):

TDG Shipping Name:

UN Number:

Hazard Class: TDG Classification:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated. Trade Name: SUGAR MOVER UN Number: Packing Group:

Hazard Class:

IMDG MFAG Number: N/A

IMDG EMS Page:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated. Trade Name: SUGAR MOVER

Additional Transport

Placards / Markings: N.A.

Information:

Emergency Response Guide Number: N.A

Reportable Quantity: N.A.

15. Regulatory Information

Canadian WHMIS Classification:

No data available.

16. Other Information

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Flammability Instability
Health
NFPA: Special Hazard

Additional Information About No data available.

This Product:

Company Policy or

Hazard Rating System:

Disclaimer:

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