SAFETY DATA SHEET
SUGAR MOVER

Revision: 06/01/2015

1. Product and Company Identification

Product Code: 00079
Product Name: SUGAR MOVER
Trade Name: SUGAR MOVER

Company Name: Stoller USA, Inc.
4001 W Sam Houston Pkwy N
Suite 100
Houston, TX 77043

Phone Number:
1 (713)461-1493

Email address: stoller@stollerusa.com

Emergency Contact: Chemtrec
1 (800)424-9300

Synonyms: Liquid fertilizer containing Boron and Molybdenum.

2. Hazards Identification

Serious Eye Damage/Eye Irritation, Category 2B
Acute Toxicity: Skin, Category 5
Skin Corrosion/Irritation, Category 2
Acute Toxicity: Inhalation, Category 5
Specific Target Organ Toxicity (single exposure), Category 3
Acute Toxicity: Oral, Category 5
Specific Target Organ Toxicity (single exposure), Category 2
Specific Target Organ Toxicity (repeated exposure), Category 2
Aquatic Toxicity (Acute), Category 3
Aquatic Toxicity (Chronic), Category 4

GHS Signal Word: **Warning**

GHS Hazard Phrases:
H303 - May be harmful if swallowed.
H313 - May be harmful in contact with skin.
H315 - Causes skin irritation.
H320 - Causes eye irritation.
H333 - May be harmful if inhaled.
H336 - May cause drowsiness or dizziness.
H371 - May cause damage to organs .
H373 - May cause damage to organs through prolonged or repeated exposure.
H402 - Harmful to aquatic life.

GHS Precaution Phrases:
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P281 - Use personal protective equipment as required.
P101 - If medical advice is needed, have product container or label at hand.
P235+410 - Keep cool and protect from sunlight.
P233 - Keep container tightly closed.

GHS Response Phrases:
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 - Immediately call a POISON CENTER or doctor/physician.

	P302+352 - IF ON SKIN: Wash with plenty of soap and water. P362 - Take off contaminated clothing and wash before re-use. P332+313 - If skin irritation occurs, get medical advice/attention. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P342+311 - If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 - If eye irritation persists, get medical advice/attention. P370+378 - In case of fire, use water, foam, carbon dioxide, dry chemicals, etc. to extinguish. P391 - Collect spillage. P390 - Absorb spillage to prevent material damage.
GHS Storage and Disposal Phrases:	P403+233 - Store container tightly closed in well-ventilated place. P405 - Store locked up. P410 - Protect from sunlight. P403 - Store in well-ventilated place. P402 - Store in a dry place. P501 - Dispose of contents/container to treatment at a permitted facility or as advised by your local regulatory authority.
Potential Health Effects (Acute and Chronic):	Chronic: Prolonged or repeated skin contact may cause dermatitis. May cause liver and kidney damage. Repeated exposure may cause central nervous system damage. Repeated exposure may cause damage to the spleen. Adverse reproductive effects have been reported in animals. Laboratory experiments have shown mutagenic effects. Chronic exposure may cause blood effects. May impair fertility. Acute: Depending on the duration of contact, overexposure can irritate the eyes, skin, mucous membranes and any other exposed tissue. Chronic: Not known. Expected toxicity hazard: slight to moderate.
Inhalation:	Prolonged exposure to low concentrations of vapors may cause sore throat, headache, nausea and dizziness.
Skin Contact:	May cause discomfort, skin irritation and, on sensitive individuals, rash unless treated promptly.
Eye Contact:	Contact with product may cause redness, slight to severe eye irritation.
Ingestion:	May cause malaise, nausea, burning sensation in stomach, gastrointestinal damage. Large doses may cause liver and kidney damage or even death.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	RTECS #
10043-35-3	Boric acid	45.0 -50.0 %	ED4550000
10102-40-6	Sodium molybdate	< 1.0 %	QA5085000
7447-39-4	Cupric chloride	~ 0.2 %	GL7000000

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:	Move patient to fresh air. Supplemental oxygen may be needed. Assure mucous does not obstruct airways. Seek medical attention if victim's breathing becomes difficult.
In Case of Skin Contact:	Immediately wash affected area with abundant soap and water. Remove contaminated clothing, taking care not to impregnate eyes. Seek medical attention if irritation occurs.
In Case of Eye Contact:	Holding eyelids apart, immediately flush eyes with copious amounts of water for at least 15 minutes. Seek medical attention if prolongued or severe irritation occurs.
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. DO NOT INDUCE VOMITING. Never give anything by mouth to someone who is unconscious, having convulsions, or unable to swallow.
Note to Physician:	Symptomatic treatment.

5. Fire Fighting Measures

Flash Pt:	N.A.
Explosive Limits:	LEL: N.A. UEL: N.A.
Autoignition Pt:	N.A.
Suitable Extinguishing Media:	Use all means adequate to fight surrounding fire: water, foam, CO2, dry chemicals, etc.
Fire Fighting Instructions:	None specific for this product, however, it is suggested that firefighters wear self-contained breathing apparatus (SCBA) and full protective equipment, such as chemical resistant clothing.
Flammable Properties and Hazards:	Toxic fumes under fire conditions.

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.
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 dirty or 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:	All personnel who handle this material should be trained to work with it safely. Avoid breathing vapors or mist; use in well-ventilated location. Empty containers may contain residual liquid or vapors, therefore, should also be handled with care.
Precautions To Be Taken in Storing:	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. Inspect all incoming containers before storage to ensure all are properly labeled and not damaged. Keep containers tightly closed when not in use.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
10043-35-3	Boric acid		TLV: 2 mg/m³	
10102-40-6	Sodium molybdate	PEL: 5 mg/m³ as Mo	TLV: 5 mg/m³ as Mo	
7447-39-4	Cupric chloride			

Respiratory Equipment (Specify Type): Wear a NIOSH/OSHA approved respirator if working conditions require doing so.

Eye Protection: Safety glasses should be worn in any type of operation with chemicals.

Protective Gloves: Protective gloves.

Other Protective Clothing: Long-sleeved shirt, long pants and protective shoes should be worn as a good safety practice.

Engineering Controls (Ventilation etc.): General ventilation is usually adequate. Local exhaust may be used depending on working conditions. An eye bath and washing facilities should be readily available.

Work/Hygienic/Maintenance Practices: As a general rule, do not eat, drink, smoke, and/or chew gum or tobacco when handling chemicals. Wash thoroughly after handling this product. Remove all dirty or contaminated clothing and wash it before reusing.

9. Physical and Chemical Properties

Physical States: [ ] Gas [X] Liquid [ ] Solid

Appearance and Odor: Translucent, royal blue color.
Without odor.

Melting Point: N.A.

Boiling Point: > 120.00 C (248.0 F)

Flash Pt: N.A.

Evaporation Rate: Similar to water

Flammability (solid, gas):

Explosive Limits: LEL: N.A. UEL: N.A.

Vapor Pressure (vs. Air or mm Hg): Not known

Vapor Density (vs. Air = 1): Similar to water

Specific Gravity (Water = 1): 1.25 - 1.27

Solubility in Water: > 99%

Percent Volatile:

Autoignition Pt: N.A.

10. Stability and Reactivity

Stability: Unstable [ ] Stable [X]

Conditions To Avoid - Instability: Stable under normal conditions, but avoid extreme heat and contact with incompatible materials.

Incompatibility - Materials To Avoid: Strong oxidizing agents, hydroxides, alkalies.

Hazardous Decomposition or Byproducts: Toxic fumes under fire conditions, like metaboric acid (HBO3) and pyroboric acid (H2B4O7) and others.

Possibility of Hazardous Reactions: Will occur [ ] Will not occur [X]

Conditions To Avoid - Hazardous Reactions:

11. Toxicological Information

Toxicological Information:

Mutagenicity: Boric acid, a component of this product, is being investigated as a mutagen.

Embryotoxicity: Boric acid, a component of this product, is being investigated as a potential embryotoxic effector in humans.

Teratogenicity: Boric acid, a component of this product, is being investigated as a potential teratogenic effector in humans.

Reproductive Toxicity: Boric acid and Sodium Molybdate, components of this product, are being investigated as reproductive effectors. The rest of this product's components are not reported to have toxic reproductive effects in animals nor humans.
CAS# 10043-35-3: 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

Carcinogenicity/Other Information:

CAS# 10043-35-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

No component listed as a carcinogenic by CPDB, IARC, NTP, OSHA, CAL/OSHA, and ACGIH.

Carcinogenicity:

NTP? No IARC Monographs? No OSHA Regulated? No

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
10043-35-3	Boric acid	n.a.	n.a.	n.a.	n.a.
10102-40-6	Sodium molybdate	n.a.	n.a.	n.a.	n.a.
7447-39-4	Cupric chloride	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

General Ecological Information:

The available data on this 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." Due to its nutritional nature, may cause eutrophication if discharged in bodies of water.
If discharged as fertilizer do not exceed 3 lb of actual boron per acre.

To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section 15. If the word "YES" is marked next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details.

13. Disposal Considerations

Waste Disposal Method:

Waste disposal must be done following all Federal, State and Local regulations. 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.

14. Transport Information

GHS Classification:

Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation
Acute Toxicity: Skin, Category 5 - Warning! May be harmful in contact with skin
Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation

Acute Toxicity: Inhalation, Category 5 - Warning! May be harmful if inhaled
Specific Target Organ Toxicity (single exposure), Category 3 - Warning! May cause respiratory irritation,or may cause drowsiness and dizziness
Acute Toxicity: Oral, Category 5 - Warning! May be harmful if swallowed
Specific Target Organ Toxicity (single exposure), Category 2 - Warning! May cause damage to organs {<target organs>}
Specific Target Organ Toxicity (repeated exposure), Category 2 - Warning! May cause damage to organs through prolonged or repeated exposure
Aquatic Toxicity (Acute), Category 3 - Harmful to aquatic life

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated. Trade Name: SUGAR MOVER
DOT Hazard Class:
UN/NA Number:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated. Trade Name: SUGAR MOVER
UN Number: **Packing Group:**
Hazard Class:
IMDG EMS Number: N/A **IMDG MFAG Number:**
IMDG EMS Page:

AIR TRANSPORT (ICAO/IATA):

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

Additional Transport Information: Placards / Markings: N/A

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
10043-35-3	Boric acid	No	No	No
10102-40-6	Sodium molybdate	No	No	No
7447-39-4	Cupric chloride	No	Yes 10 LB	Yes-Cat. N100

This material meets the EPA	[X] Yes [ ] No	Acute (immediate) Health Hazard
'Hazard Categories' defined	[X] Yes [ ] No	Chronic (delayed) Health Hazard
for SARA Title III Sections	[ ] Yes [X] No	Fire Hazard
311/312 as indicated:	[ ] Yes [X] No	Sudden Release of Pressure Hazard
	[ ] Yes [X] No	Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
10043-35-3	Boric acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No
10102-40-6	Sodium molybdate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8
7447-39-4	Cupric chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
10043-35-3	Boric acid	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; REACH: Yes - (R), (P)
10102-40-6	Sodium molybdate	Canadian DSL: No; Canadian NDSL: No; Mexico INSQ: No; REACH: Yes - (P)
7447-39-4	Cupric chloride	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes

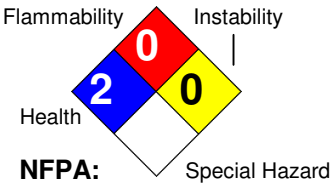
		- 2802; REACH: Yes - (R), (P)

Regulatory Information Statement: If this product contains components designated as CERCLA Reportable Quantity (RQ) Substance, Section 103 of CERCLA requires the "person in charge" of a facility or vessel, as soon as he or she has knowledge of a release of a hazardous substance in an amount equal to or greater than an RQ, to report the release immediately to the National Response Center in Washington, DC. The NRC number is 1-800-424-8802, or 1 (202) 267-2675.

16. Other Information

Revision Date: 06/01/2015

Hazard Rating System:



Additional Information About This Product:

Company Policy or Disclaimer: Stoller USA, Inc., believes the information contained in this Safety Data Sheet is accurate based on the information provided by reputable suppliers of our raw materials. However, Stoller USA does not guarantee their accuracy or completeness. The information contained herein is furnished without warranty of any kind, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for any particular purpose. Users should consider these data only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Stoller USA assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of goods and data.