



STOLLER USA, INC.

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FRUIT POWER

MATERIAL SAFETY DATA SHEET (Rev. 28/Sept/2012)

SECTION I - PRODUCT IDENTIFICATION

Company Name: STOLLER USA, INC.
Address: 4001 W Sam Houston Parkway N, Suite 100 • Houston, TX 77043 U.S.A.
Phone Number for Information: 1 (800) 539-5283 or 1 (713) 461-1493

Emergency Phone Number, CHEMTREC for Stoller Enterprises, Inc.:
In the US and Canada call toll-free 1 (800) 424-9300
From other countries call collect: +1 (703) 527-3887

Chemical Family: Solution of Calcium and Boron
Chemical Name & Synonyms: Liquid fertilizer containing Calcium and Boron
Formula: Proprietary
Trade name & Synonyms: **FRUIT POWER**

SECTION II - COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS:	CAS #	Approx. %	TLV
Calcium chloride, solution	10043-52-4	35 - 40	
Boric Acid	10043-35-3	1 - 1.5	N/E
Molasses		5 - 6	N/E

SECTION III - HAZARD IDENTIFICATION

NFPA HAZARD RATINGS

HEALTH HAZARD 1 FIRE HAZARD 0 REACTIVITY 0
Based on the National Fire Protection Association rating system
(0 = Minimal; 1 = Slight; 2 = Moderate; 3 = High; 4 = Severe)

SARA/TITLE III HAZARD CATEGORIES (See Section XV)

Immediate (Acute) Health: NO Delayed (Chronic) Health: NO
Reactive Hazard: NO Fire Hazard: NO Sudden Release of Pressure: NO

EXPOSURE LIMITS

OSHA Permissible Exposure Limit (PEL): Not Established
ACGIH Threshold Limit Value (TLV): Not Established

EFFECTS OF OVEREXPOSURE

ACUTE: Depending on the duration of contact, overexposures can irritate the eyes, skin, mucous membranes and any other exposed tissue.

EYES: Contact with product may cause redness, slight to severe irritation.

SKIN: May cause discomfort, skin irritation or rash unless treated promptly.

INHALATION: Prolonged exposure to low concentrations of vapors may cause sore throat and headache, irritation of upper respiratory tract.

INGESTION: May cause malaise, nausea, vomiting, burning sensation in stomach. Large doses may cause gastrointestinal damage or ulceration.

CHRONIC: Not known. Expected toxicity hazard: moderate.

SECTION IV - FIRST-AID MEASURES**EMERGENCY 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 MSDS of product to health professional.

EYES: Immediately, holding eyelids apart, flush eyes with abundant water for at least 15 minutes. Seek medical attention should severe irritation occurs.

SKIN: Immediately wash affected area with abundant soap and water. Remove contaminated clothing taking care not to impregnate eyes. Seek medical attention if irritations occur.

INHALATION: Move patient to fresh air. Supplemental oxygen may be indicated. Assure mucous does not obstruct airway. Seek medical attention if victim's breathing is difficult.

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.

ADDITIONAL INFORMATION: Note to Physician: Symptomatic treatment.

SECTION V - FIRE AND EXPLOSION DATA

FLASH POINT: Not Applicable; product is non-flammable.

FLAMMABLE LIMITS: **LEL:** Not Applicable **UEL:** Not Applicable

EXTINGUISHER MEDIA: Use all means adequate to fight surrounding fire, like water, foam, CO₂, dry chemicals, etc.

SPECIAL FIRE FIGHTING PROCEDURES: None specific for this product. It is suggested that firefighters wear self-contained breathing apparatus and full protective equipment, such as chemical resistant clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes under fire conditions.

SECTION VI - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED: 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 faceshield and coveralls. May present a slipping hazard.

It is necessary to contain 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. Flush residue with water.

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 a dry waste in accordance with Federal, State and Local waste disposal regulations.

SECTION VII - HANDLING AND STORAGE

All personnel who handle this material should be trained to work with it safely. Avoid breathing vapors or mists; use in a well-ventilated location. Empty containers may contain residual liquid or vapors therefore, should be handled also with care.

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.

SECTION VIII - SPECIAL PROTECTION / CONTROL MEASURES

RESPIRATORY PROTECTION: Wear a NIOSH / OSHA approved respirator if working conditions require doing so.

VENTILATION: General ventilation is usually adequate. Local exhaust may be used if needed for safe, comfortable working conditions.

SKIN AND EYE PROTECTION: Safety glasses should be worn in any type of operation with chemicals. Protective gloves, long-sleeved shirt and long pants, as well as protective shoes should be worn as a good safety practice.

OTHER CONTROL MEASURES: An eye bath and washing facilities should be readily available. Remove all dirty or contaminated clothing and wash it before reusing.

WORK/HYGIENIC PRACTICES: As a general rule, do not eat, drink, smoke, chew gum or tobacco when handling chemicals. Wash thoroughly after handling this product.

SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: >120°C (>250 °F)	VAPOR PRESSURE (mm/Hg): Not Established
MELTING POINT: Not Applicable	VAPOR DENSITY (air = 1): Not Established
SPECIFIC GRAVITY: 1.12 – 1.13	REACTIVITY IN WATER: Not Applicable
SOLUBILITY IN WATER: >99%	EVAPORATION RATE: Similar to water
APPEARANCE AND ODOR: Liquid, translucent, brown color, with a very slight molasses odor.	
OTHER:	

SECTION X - PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY: Stable

CONDITIONS TO AVOID: Stable under normal conditions, but avoid extreme heat and contact with incompatible materials.

INCOMPATIBILITY, MATERIALS TO AVOID: Strong oxidizing agents, hydroxides, alkalies, strong acids.

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes under fire conditions, like metaboric acid (HBO₃) and pyroboric acid (H₂B₄O₇), etc.

SECTION XI - TOXICOLOGICAL INFORMATION**TOXICITY DATA**

ORAL LD₅₀: Calcium Chloride (rat) 1000 to 2000 mg/kg; Boric Acid (rat) 2660 mg/kg;

DERMAL LD₅₀: Calcium Chloride (rabbit) >5000 mg/kg

INHALATION: Not Available

CARCINOGENICITY

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

MUTAGENICITY: Boric acid, a component of this product, is being investigated as mutagenic.

EMBRYOTOXICITY: The components of this product are not reported to produce embryotoxic effects in humans.

TERATOGENICITY: The components of this product are not reported to produce teratogenic effects in humans.

REPRODUCTIVE TOXICITY: The components of this product are not reported to have reproductive toxicity effects in animals nor humans.

SECTION XII - ENVIRONMENTAL EFFECTS DATA

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 Accidental Release Measures. If discarded as fertilizer, do not exceed 3 lb of actual boron per acre. Because of its nutritional nature, may cause eutrophication if discharged in bodies of water.

To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section III. If the word "YES" appears 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

SECTION XIII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: 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.

SECTION XIV - TRANSPORTATION DATA

DOT Proper Shipping Name: N/A (Trade name: FRUIT POWER)

DOT Hazard Class: Non-Regulated. **PLACARD:** N/A

IATA Proper Shipping Name And Hazard Class: Non-Regulated
(Trade name: FRUIT POWER)

IMO Proper Shipping Name And Hazard Class: Non-Regulated
(Trade name: FRUIT POWER)

Placards / Markings: N/A

Emergency Response Guide Number: N/A

SECTION XV - REGULATORY INFORMATION

U. S. SARA REPORTING REQUIREMENTS: This product might be subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act:

U.S. SARA 302 (40 CFR 355, Appendix A): NO

U.S. SARA 304 (40 CFR Table 302.4): NO

U.S. SARA 313 (40 CFR 372.65): NO

U.S. SARA THRESHOLD PLANNING QUANTITY: NO

U.S. CERCLA REPORTABLE QUANTITY (RQ): NO

U.S. TSCA INVENTORY STATUS: The components of this material are listed on the TSCA Inventory.

CANADIAN DSL INVENTORY: The components of this material are listed on the DSL Inventory

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, D.C. The NRC number is 1-800-424-8802, or 1 (202) 267-2675.

SECTION XVI - OTHER INFORMATION

Date of MSDS Revision: September 14, 2012. Supersedes all previous versions, including the one from June 6, 2010.
Sections revised: I, II, III, IV, VI, XI and XII

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