

CaB

Material Safety Data Sheet (rev.11/05)

SECTION I PRODUCT 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 IX)

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

Company Name: STOLLER USA, INC.
 Address: 4001 W. Sam Houston Parkway, N., Suite 100
 Houston, Texas 77043-1226 U.S.A.
 Emergency Phone Number: CHEMTREC: In the U.S. and Canada call Toll-free: 1(800)424-9300
 Houston, Texas 77043-1226 U.S.A.
 Phone Number for Information: 1(800)539-5283 or 1(713)461-1493
 Chemical Family: Mono Borate
 Chemical Name & Synonyms: Mixture of calcium and boron bases
 Formula: Proprietary
 Trade name & Synonyms: **CaB**

SECTION II COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENTS:	CAS#	Approx. %	TLV
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SECTION III HAZARD IDENTIFICATION

A. EXPOSURE LIMITS:

1. OSHA Permissible Exposure Limit (PEL): N/ E
2. Threshold Limit Value (TLV): N/ E

B. CARCINOGEN OR POTENTIAL CARCINOGEN:

1. NPT: N/ A
2. IARC: N/ A
3. OSHA: N/ A

C. EFFECTS OF OVEREXPOSURE:

1. **ACUTE:**
EYES: Irritation, possible injury
SKIN: Possible irritation
INHALATION: Irritation
INGESTION: Irritation of mucous membranes in mouth, throat, nausea, diarrhea.
2. **CHRONIC:** Pulmonary irritation. Necrosis of cut or abraded skin.

D. ADDITIONAL INFORMATION: Acute Toxicity Effects Data Calcium chloride LD50 (oral- rat) mg/ kg - 1000 Calcium chloride LD50 (1pr- mouse) mg/ kg 280

SECTION IV FIRST-AID MEASURES

A. EMERGENCY FIRST AID PROCEDURES:

EYES: Rinse thoroughly with running water for 15 minutes. Seek medical attention.
SKIN: Wash with soap and water. Rinse thoroughly. Seek medical attention if inflammation occurs. Do not attempt to neutralize with chemicals.
INHALATION: Remove from exposure area. If irritation exists from mists, or in the event of massive inhalation . Seek medical help.
INGESTION: Drink excess water or milk. Induce vomiting. Seek medical attention.

B. ANIMAL TOXICITY DATA: N/ A

C. ADDITIONAL INFORMATION: Acute Toxicity Effects Data Calcium chloride LD50 (oral- rat) mg/ kg - 1000 Calcium chloride LD50 (1pr- mouse) mg/ kg 280

SECTION V**FIRE AND EXPLOSION DATA**

FLASH POINT:	N/ A	LEL:	UEL:
FLAMMABLE LIMITS:	N/ A		
EXTINGUISHER MEDIA:	Water, Carbon Dioxide (CO ₂), Dry Chemicals.		
SPECIAL FIRE FIGHTING PROCEDURES:	Firefighters should wear butyl rubber boots and clothing. Wear self- contained breathing apparatus.		
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Toxic fumes may be generated at elevated temperatures.		

SECTION VI**ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED: It is necessary to contain spill into the smallest area possible by diking etc. Replace liquid into plastic container . If liquid is absorbed onto dry carrier such as soil or absorbent material, then this material should be held in a dry contained area.

SECTION VII**HANDLING AND STORAGE**

Keep containers closed and away from oxidizing agents. Store only in shipping container: Pails (PVC), Drums (Polyethylene) and Mini Bulk tanks (Polyethylene). Bulk material should be stored in Polyethylene Tanks with PVC fittings.

SECTION VIII**SPECIAL PROTECTION / CONTROL MEASURES**

RESPIRATORY PROTECTION: As required by conditions. Use an OSHA or NIOSH approved respirator if necessary
VENTILATION: General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions.
PROTECTIVE GLOVES: Use butyl rubber gloves.
WORK/ HYGIENIC PRACTICES: Wash thoroughly after handling. Also wash clothing.

SECTION IX**PHYSICAL AND CHEMICAL CHARACTERISTICS**

BOILING POINT:	212°F	VAPOR PRESSURE (mm/Hg):	N/ E
MELTING POINT:	N/ A	VAPOR DENSITY (air = 1):	N/ E
SPECIFIC GRAVITY:	1.32	REACTIVITY IN WATER:	N/ E
SOLUBILITY IN WATER:	100%	EVAPORATION RATE:	N/ E
APPEARANCE AND ODOR:	Dark brown liquid. Slight molasses odor.		
PERCENT VOLATILE BY VOLUME:	N/ A		

SECTION X**PHYSICAL HAZARDS (REACTIVITY DATA)**

STABILITY:	Stable: Yes	Unstable:
CONDITIONS TO AVOID:	N/ A	
INCOMPATIBILITY, MATERIALS TO AVOID:	N/ E	
HAZARDOUS DECOMPOSITION PRODUCTS:	Chloride at very high temperature.	
HAZARDOUS POLYMERIZATION:	None	
MAY OCCUR: X		WILL NOT OCCUR:

SECTION XI**TOXICOLOGICAL INFORMATION**

- A. **TOXICITY DATA:**
- B. **CARCINOGENICITY:**
- C. **MUTAGENICITY:**
- D. **REPRODUCTIVE TOXICITY:**

SECTION XII**ENVIRONMENTAL EFFECTS DATA**

The available data on this plant nutrient material 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 as a Fertilizer, not to exceed 3lbs. Of actual Boron per acre (see above under Waste Disposal Methods). If discharged into the marine environment it may be toxic to fish and other marine organisms. Due to its nutrient value, may contribute to eutrophication in bodies of water.

SECTION XIII**DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHODS: Liquid should be applied to the soil as a fertilizer not to exceed 15 gallons per acre. Product absorbed onto dry carrier should be applied to soil as a fertilizer not to exceed 300 lbs. per acre.

SECTION XIV**TRANSPORTATION DATA**

DOT HAZARD CLASS: NON- HAZARDOUS

PLACARD: NOT REQUIRED

USDOT Proper Shipping Name: CaB

IATA Proper Shipping Name: N/ A

IMO Proper Shipping Name: N/ A