

KEYLATE® SUPER STARTER MIX (1%)

Material Safety Data Sheet (rev.06/03)

SECTION I PRODUCT IDENTIFICATION

NFPA HAZARD RATINGS	
HEALTH HAZARD 0	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	
Immediate (ACUTE) Health: none	Reactive Hazard: none
Delayed (Chronic) Health: none	Fire Hazard: none
Sudden Release of Pressure: not applic	
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 From other countries call collect: 1(703)527-3887
Phone Number for Information:	1(800)539-5283 or 1(713)461-1493
Chemical Family:	metallic oxides
Chemical Name & Synonyms:	KEYLATE MIXTURE
Formula:	See SECTION II COMPOSITION/ INGREDIENTS INFORMATION
Trade name & Synonyms:	KEYLATE® SUPER STARTER MIX (1%)

SECTION II COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENTS:	CAS#	Approx. %	TLV
Zinc Oxide	1314-13-2	<10	
Manganese Oxide	1344-43-0	<5	
Copper Hydroxide	20427-59-2	<5	
Magnesium Oxide	1309-48-4	<5	
Dimethyl Aminopropylamine	109-55-7	1	
Monoethanolamine	141-43141	16	

SECTION III HAZARD IDENTIFICATION

- A. **EXPOSURE LIMITS:**
1. OSHA Permissible Exposure Limit (PEL): NOT ESTABLISHED
 2. Threshold Limit Value (TLV): NOT ESTABLISHED
- B. **CARCINOGEN OR POTENTIAL CARCINOGEN:**
- C. **EFFECTS OF OVEREXPOSURE:**
1. **ACUTE:**
EYES: May cause irritation.
SKIN: May irritate skin
INHALATION: N/ A
INGESTION: May cause thirst, pain, nausea, vomiting and diarrhea.
- D. **ADDITIONAL INFORMATION:**N/ A

SECTION IV FIRST-AID MEASURES

- A. **EMERGENCY FIRST AID PROCEDURES:**
- EYES:** Flush with water for at least 15 minutes.
SKIN: Wash thoroughly with soap and water.
INHALATION: N/ A
INGESTION: Drink several glasses of water. Induce vomiting by introducing finger into throat.
- B. **ANIMAL TOXICITY DATA:** N/ A
- C. **ADDITIONAL INFORMATION:** N/ A

SECTION V

FIRE AND EXPLOSION DATA

FLASH POINT:	NOT ESTABLISHED		
FLAMMABLE LIMITS:	NOT ESTABLISHED	LEL:	UEL:
EXTINGUISHER MEDIA:	Use all means adequate to fight surrounding fire.		
SPECIAL FIRE FIGHTING PROCEDURES:	NONE		
UNUSUAL FIRE AND EXPLOSION HAZARDS:	NONE		

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 put in covered labeled containers and dispose of as a dry waste.

SECTION VII

HANDLING AND STORAGE

Keep containers closed and away from oxidizing agents. Store only in shipping container: Bulk material should be stored in Polyethylene Tanks with PVC fittings.

SECTION VIII

SPECIAL PROTECTION / CONTROL MEASURES

LOCAL EXHAUST: Provide general or local exhaust ventilation.
SPECIAL VENTILATION: Not applicable
PROTECTIVE GLOVES: Wear protective gloves and clothing impervious to this material.
EYE PROTECTION: Use chemical goggles. Use full- face respirator when there is any likelihood of splashes.
OTHER SPECIAL CLOTHING/ EQUIPMENT: Eye wash fountain should be located in immediate work area.

SECTION IX

PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT:	220°F	VAPOR PRESSURE (mm/Hg):	<1mm @ 68°F
MELTING POINT:	N/ A	VAPOR DENSITY (air = 1):	2.1
SPECIFIC GRAVITY:	1.25	REACTIVITY IN WATER:	N/ A
SOLUBILITY IN WATER:	100%	EVAPORATION RATE:	0.1
APPEARANCE AND ODOR:	Clear dark blue- green solution, no odor.		

SECTION X

PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY:	Stable: Yes	Unstable:
CONDITIONS TO AVOID:	Stable under normal conditions	
INCOMPATIBILITY, MATERIALS TO AVOID:	Intimate mixtures with chlorinated rubber above 216°F	
HAZARDOUS DECOMPOSITION PRODUCTS:	none	
HAZARDOUS POLYMERIZATION:	N/ A	
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 (see above under Waste Disposal Methods). Due to its nutrient value, may contribute to eutrophication in bodies of water.

SECTION XIII**DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHODS: Follow all applicable federal, state and local regulations.

SECTION XIV**TRANSPORTATION DATA**

PROPER SHIPPING NAME: KEYLATE® SUPER STARTER 4-1-1-1

DOT HAZARD CLASS: Non- hazardous material; Non- regulated material, Non- regulated material

PLACARD: N/ A

USDOT Proper Shipping Name: KEYLATE® SUPER STARTER 4-1-1-1

IATA Proper Shipping Name: N/ A

IMO Proper Shipping Name: N/ A