

KEYLATE® SUPER STARTER 4-3-1

Material Safety Data Sheet (rev.01/05)

SECTION I PRODUCT IDENTIFICATION

HMIS HAZARD RATINGS		
HEALTH HAZARD Non- toxic	FIRE HAZARD Non- combus	REACTIVITY Stable
SaRA/ TITLE III HAZARD CATEGORIES (See Section X)		
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 West Sam Houston Pkwy N. Houston, Texas 77043	
Emergency Phone Number:	CHEMTREC: In the U.S. and Canada, call toll-free: 1 (800) 424-9300 From all 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 4-3-1	

SECTION II PHYSICAL AND CHEMICAL CHARACTERISTICS

INGREDIENTS:	CAS#	Approx. %	TLV
Zinc Oxide	1314-13-2	5	
Manganese Oxide	1344-43-0	5	
Copper Hydroxide	20427-59-2	5	

SECTION III PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT:	212°F	VAPOR PRESSURE (mm/ Hg):	
MELTING POINT:		VAPOR DENSITY (air = 1):	2.1
SPECIFIC GRAVITY:	1.25	REACTIVITY IN WATER:	
SOLUBILITY IN WATER:	100%	EVAPORATION RATE:	0.1
APPEARANCE AND ODOR:	Clear Green solution. No Odor.		

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT:	N/ A	LEL: Not Established	UEL: Not Established
FLAMMABLE LIMITS:	NOT ESTABLISHED		
EXTINGUISHER MEDIA:	NONE		
SPECIAL FIRE FIGHTING PROCEDURES:	NONE		
UNUSUAL FIRE AND EXPLOSION HAZARDS:	NONE		

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

STABILITY: Stable: Yes Unstable:
INCOMPATIBILITY, MATERIALS TO AVOID: Intimate mixtures with chlorinated rubber above 216°F.
HAZARDOUS DECOMPOSITION PRODUCTS: None
MAY OCCUR: **WILL NOT OCCUR: X**

SECTION VI**HEALTH HAZARDS**

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 irritate.
SKIN: May irritate skin.
INHALATION: None.
INGESTION: Non- Toxic.
D. EMERGENCY FIRST AID PROCEDURES:
EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention, preferably an ophthalmologist.
SKIN: Wash with soap and water. Rinse thoroughly; seek medical attention if inflammation occurs.
INHALATION: N/ A
INGESTION: May cause thirst, pain, nausea, vomiting and diarrhea.

SECTION VII**SPECIAL PRECAUTIONS & SPILL/ LEAK PROCEDURES**

HANDLING AND STORAGE: Since emptied packages retain product residue, follow label warning even after package is emptied.
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED: Collect and contain for salvage or disposal. Absorb waste on inert media and dispose of as solid waste.
WASTE DISPOSAL METHODS:

SECTION VIII**SPECIAL PROTECTION / CONTROL MEASURES**

RESPIRATORY PROTECTION: As required by conditions. Use an OSHA or NIOSH approved respirator if required.
VENTILATION: General ventilation is usually adequate. Local exhaust should be used if needed, for safe, comfortable working conditions.

SECTION IX**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 X**TRANSPORTATION DATA**

DOT HAZARD CLASS: NON- REGULATED, NON- HAZARDOUS

To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section I. 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.

Stoller Enterprises, Inc., believes the information contained in this material safety data sheet is accurate based on the information supplied by reputable suppliers of our raw materials. The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations 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.