

KEYLATE® MANGANESE (5%)

Material Safety Data Sheet (rev.01/05)

SECTION I PRODUCT IDENTIFICATION

| | | |
|--|---|----------------------------------|
| | NFPA HAZARD RATINGS | |
| HEALTH HAZARD non- toxic | FIRE HAZARD non- combus | REACTIVITY stable |
| SARA/ TITLE III HAZARD CATEGORIES | | |
| Immediate (ACUTE) Health: None | Reactive Hazard: None | |
| Delayed (Chronic) Health: None | Fire Hazard: None | Sudden Release of Pressure: N/ A |
| 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: | N/ A | |
| Formula: | N/ A | |
| Trade name & Synonyms: | KEYLATE MANGANESE | |

SECTION II PHYSICAL AND CHEMICAL CHARACTERISTICS

| INGREDIENTS: | CAS# | Approx. % | TLV |
|-----------------|-----------|-----------|-----|
| Manganese Oxide | | >10 | |
| Magnesium Oxide | 1344-43-0 | | |

SECTION III PHYSICAL AND CHEMICAL CHARACTERISTICS

| | | | |
|------------------------------------|-------------------------------|---------------------------------|------|
| BOILING POINT: | 212°F | VAPOR PRESSURE (mm/ Hg): | |
| MELTING POINT: | N/ A | VAPOR DENSITY (air = 1): | 2.1 |
| SPECIFIC GRAVITY: | 1.3 | REACTIVITY IN WATER: | N/ A |
| SOLUBILITY IN WATER: | 100% | EVAPORATION RATE: | 0.1 |
| APPEARANCE AND ODOR: | clear brown solution, NO ODOR | | |
| PERCENT VOLATILE BY VOLUME: | | N/ A | |

SECTION IV FIRE AND EXPLOSION DATA

| | | | |
|--|------|-----------------------------|-----------------------------|
| FLASH POINT: | N/ A | LEL: NOT ESTABLISHED | UEL: NOT ESTABLISHED |
| FLAMMABLE LIMITS: | | | |
| EXTINGUISHER MEDIA: | NONE | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS: | NONE | | |

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

STABILITY:
CONDITIONS TO AVOID:
INCOMPATIBILITY, MATERIALS TO AVOID:
HAZARDOUS DECOMPOSITION PRODUCTS:
MAY OCCUR: **WILL NOT OCCUR: X**

Stable: Yes Unstable:
Stable under normal conditions
intimate mixtures with chlorinated rubber above 216°F
None

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: N/ A**
- C. EFFECTS OF OVEREXPOSURE:**
1. **ACUTE:**
EYES: MAY IRRITATE
SKIN: MAY IRRITATE SKIN
INHALATION: NA
INGESTION: NON- TOXIC
- D. EMERGENCY FIRST AID PROCEDURES:**
EYES: immediately flush eyes with plenty of water for at least 15 minutes.
SKIN: Wash thoroughly with soap and water.
INHALATION: N/ A
INGESTION: May cause thirst, pain, nausea, vomiting and diarrhea
- E. ANIMAL TOXICITY DATA:**N/ A
F. ADDITIONAL INFORMATION:N/ A

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

HANDLING AND STORAGE:Keep containers closed and dry. Wash hands thoroughly after using.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED: Prevent material from entering sewers or waterways. Put material in covered labeled containers. Collect and contain for salvage or disposal. Absorb waste on inert media and dispose of as solid waste.

WASTE DISPOSAL METHODS: Landfill in compliance with all federal, state and local laws concerning health and environment.

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.

PROTECTIVE GLOVES: N/ A

SECTION IX**ENVIRONMENTAL EFFECTS DATA**

Collect and contain for salvage or disposal. Absorb waste on inert media and dispose of as solid waste.

SECTION X**TRANSPORTATION DATA**

PROPER SHIPPING NAME: KEYLATE MANGANESE

DOT HAZARD CLASS: NONHAZARDOUS MATERIAL Non- Regulated Material

PLACARD: N/ A

USDOT Proper Shipping Name: KEYLATE® MAGNESIUM
NONHAZARDOUS MATERIAL
NONREGULATED MATERIAL

IATA Proper Shipping Name: N/ A

IMO Proper Shipping Name: N/ A

DOT Hazardous Material: NONHAZARDOUS MATERIAL
NONREGULATED MATERIAL

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