

KEYLATE® COPPER (5%)

Material Safety Data Sheet (rev.01/05)

**SECTION I PRODUCT IDENTIFICATION**

|  |   |
|--|---|
|  | <b>NFPA HAZARD RATINGS</b>  |
| HEALTH HAZARD 0                          | FIRE HAZARD 0 REACTIVITY 0  |
| <b>SARA/ TITLE III HAZARD CATEGORIES</b> |   |
| 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<br>Houston, Texas 77043-1226 U.S.A.  |
| Emergency Phone Number:                  | CHEMTREC: In the U.S. and Canada call Toll- free: 1(800)424-9300<br>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 sulfates   |
| Chemical Name & Synonyms:                | COPPER HYDROXIDE  |
| Formula:                                 | See SECTION II COMPOSITION/ INGREDIENTS INFORMATION   |
| Trade name & Synonyms:                   | KEYLATE® COPPER (5%)  |

**SECTION II PHYSICAL AND CHEMICAL CHARACTERISTICS**

| INGREDIENTS:              | CAS#     | Approx. % | TLV |
|---------------------------|----------|-----------|-----|
| Copper Hydroxide          | N/ A     | < 10      |     |
| Dimethyl Aminopropylamine | 109-55-7 | 1%        |     |
| Monoethanolamine          | 141-43-5 | 13%       |     |

**SECTION III PHYSICAL AND CHEMICAL CHARACTERISTICS**

|                                    |                                     |                                 |      |
|------------------------------------|-------------------------------------|---------------------------------|------|
| <b>BOILING POINT:</b>              | 220°F                               | <b>VAPOR PRESSURE (mm/ Hg):</b> |      |
| <b>MELTING POINT:</b>              | N/ A                                | <b>VAPOR DENSITY (air = 1):</b> | 2.1  |
| <b>SPECIFIC GRAVITY:</b>           | 1.3                                 | <b>REACTIVITY IN WATER:</b>     | N/ A |
| <b>SOLUBILITY IN WATER:</b>        | 100%                                | <b>EVAPORATION RATE:</b>        | 0.1  |
| <b>APPEARANCE AND ODOR:</b>        | dark blue- green solution, no odor. |                                 |      |
| <b>PERCENT VOLATILE BY VOLUME:</b> |                                     | N/ A                            |      |

**SECTION IV FIRE AND EXPLOSION DATA**

|  |   |             |             |
|--|---|-------------|-------------|
| <b>FLASH POINT:</b>                        | NOT ESTABLISHED   |             |             |
| <b>FLAMMABLE LIMITS:</b>                   | NOT ESTABLISHED   | <b>LEL:</b> | <b>UEL:</b> |
| <b>EXTINGUISHER MEDIA:</b>                 | Non- combustible. Use all means adequate to fight surrounding fire. |             |             |
| <b>SPECIAL FIRE FIGHTING PROCEDURES:</b>   | NONE  |             |             |
| <b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b> | NONE  |             |             |

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

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

Stable: Yes                      Unstable:  
Stable under normal conditions.  
None known  
None  
WILL NOT OCCUR

**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:** N/A  
**INGESTION:** May cause thirst, pain, nausea, vomiting and diarrhea.  
2. **CHRONIC:** None Known  
**D. EMERGENCY FIRST AID PROCEDURES:**  
**EYES:** Flush with water for at least 15 minutes.  
**SKIN:** Wash with soap and water.  
**INHALATION:** N/A  
**INGESTION:** Drink several glasses of water. Induce vomiting by introducing finger down throat.

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

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

**SECTION VIII****SPECIAL PROTECTION / CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Not specifically required.  
**VENTILATION:** 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****ENVIRONMENTAL EFFECTS DATA**

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This product may be toxic to fish. Keep out of lakes, streams, or ponds. 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.

**SECTION X****TRANSPORTATION DATA**

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**PROPER SHIPPING NAME:** KEYLATE® COPPER

**DOT HAZARD CLASS:** Non- Hazardous Material; Non- Regulated Material

**PLACARD:** N/ A

**USDOT Proper Shipping Name:** KEYLATE® COPPER

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