| LTS Research |
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LTS Research Laboratories, Inc. Safety Data Sheet Copper Silicate

| | 1. Product and Company Identification |
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| Trade Name: | Copper silicate |
| Chemical Formula: | CuSiO ₃ |
| Recommended Use: | Scientific research and development |
| Manufacturer/Supplier: | LTS Research Laboratories, Inc. |
| Street: | 37 Ramland Road |
| City: | Orangeburg |
| State: | New York |
| Zip Code: | 10962 |
| Country: | USA |
| Tel #: | 855-587-2436 / 855-lts-chem |
| 24-Hour Emergency Contact: | 800-424-9300 (US & Canada) |
| | +1-703-527-3887 (International) |
| | 2. Hazards Identification |
| Signal Word: | Warning |
| | LTE esearch |
| Hazard Statements: | H320 Causes eye irritation |
| Hazard Statements: Precautionary Statements: | P261 Avoid breathing dust/fume/vapor |
| Precautionary Statements: | |
| | P261 Avoid breathing dust/fume/vapor |
| Precautionary Statements: HMIS Health Ratings (0-4): | P261 Avoid breathing dust/fume/vapor P305+P351 If in eyes: Rinse cautiously with water for several minutes. |
| Precautionary Statements: HMIS Health Ratings (0-4): Health: | P261 Avoid breathing dust/fume/vapor P305+P351 If in eyes: Rinse cautiously with water for several minutes. |
| Precautionary Statements: HMIS Health Ratings (0-4): Health: Flammability: | P261 Avoid breathing dust/fume/vapor P305+P351 If in eyes: Rinse cautiously with water for several minutes. |
| Precautionary Statements: HMIS Health Ratings (0-4): Health: Flammability: Physical: Chemical Family: | P261 Avoid breathing dust/fume/vapor P305+P351 If in eyes: Rinse cautiously with water for several minutes. |
| Precautionary Statements: HMIS Health Ratings (0-4): Health: Flammability: Physical: | P261 Avoid breathing dust/fume/vapor P305+P351 If in eyes: Rinse cautiously with water for several minutes. 1 0 1 3. Composition |
| Precautionary Statements: HMIS Health Ratings (0-4): Health: Flammability: Physical: Chemical Family: Additional Names: Copper silicate (CuSiO ₃): | P261 Avoid breathing dust/fume/vapor P305+P351 If in eyes: Rinse cautiously with water for several minutes. 1 0 1 3. Composition Ceramic Copper silicon oxide, Cupric silicate |
| Precautionary Statements: HMIS Health Ratings (0-4): Health: Flammability: Physical: Chemical Family: Additional Names: Copper silicate (CuSiO ₃): Percentage: | P261 Avoid breathing dust/fume/vapor P305+P351 If in eyes: Rinse cautiously with water for several minutes 1 0 1 3. Composition Ceramic Copper silicon oxide, Cupric silicate 100 wt% |
| Precautionary Statements: HMIS Health Ratings (0-4): Health: Flammability: Physical: Chemical Family: Additional Names: Copper silicate (CuSiO ₃): | P261 Avoid breathing dust/fume/vapor P305+P351 If in eyes: Rinse cautiously with water for several minutes. 1 0 1 3. Composition Ceramic Copper silicon oxide, Cupric silicate |

| | 4. First Aid Procedures |
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| General Treatment: | Seek medical attention if symptoms persist. |
| Special Treatment: | None |
| Important Symptoms: | None |
| Inhalation: | Remove victim to fresh air. Supply oxygen if breathing is difficult. |
| Ingestion: | Give one to two glasses of water and induce vomiting. Never induce |
| Skin: | vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any contaminated clothing. |
| Eyes: | Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing |
| | 5. Firefighting Measures |
| | Non-flammable |
| Extinguishing Media: | No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. |
| Spec. Fire Fighting Procedure: | Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products. |
| | 6. Accidental Release Measures |
| If Material Is Released/Spilled: | Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. |
| Environmental Precautions: | Take care not to raise dust. Isolate runoff to prevent environmental pollution. |
| | 7. Handling and Storage |
| Handling Conditions: | Wash thoroughly after handling. |
| Storage Conditions: | Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. |
| Work/Hygienic Maintenance: | Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. |
| Ventilation: | Provide sufficient ventilation to maintain concentration at or below threshold limit. |
| 8. | Exposure Controls and Personal Protection |
| Permissible Exposure Limits: Threshold Limit Value: | 0.1 mg/m ³ as Cu fume, 1 mg/m ³ as Cu dust 0.2 mg/m ³ as Cu fume, 1 mg/m ³ as Cu dust |
| Special Equipment: | None |
| Respiratory Protection: | Dust Respirator |
| Protective Gloves: | Rubber gloves |
| Eye Protection: | Safety glasses or goggles |
| Body Protection: | Protective work clothing. Wear close-toed shoes and long sleeves/pants. |

| 9. P | hysical and Chemical Characteristics |
|---|--|
| Color | Blue/teal |
| Form: | Powder, Granules, Pellets, Sputtering target, Custom parts |
| Odor: | Odorless |
| Water Solubility: | Insoluble |
| Boiling Point: | N/A |
| Melting Point: | N/A |
| Flash Point: | N/A |
| Autoignition Temperature: | N/A |
| Density: | N/A |
| Molecular weight: | 139.63 g/mol |
| | 10. Reactivity |
| Stability: | Stable under recommended storage conditions |
| Reacts With: | Oxidizing agents |
| Incompatible Conditions: | None |
| Hazardous Decomposition Products: | Metal oxide fume |
| | 11. Toxicological Information |
| Potential Health Effects: | |
| Eyes: | May cause irritation |
| Skin: | May cause irritation |
| Ingestion: | May cause irritation |
| Inhalation: | May cause irritation |
| Chronic: | N/Á |
| Ciana & Camatana | N/A C-S Research |
| Signs & Symptoms: | N/A konstonies, Inc. |
| Aggravated Medical Conditions: | N/A |
| Median Lethal Dose: | N/A |
| Carcinogen: | N/A |
| | 12. Ecological Information |
| Aquatic Toxicity: | Mild |
| Persistent Bioaccumulation Toxicity: | No |
| Very Persistent, Very Bioaccumulative: | No |
| Notes: | N/A |
| | 13. Disposal Considerations |
| Dispose of in accordance with local, state, | , national, and international regulations. |
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| | 14. Transportation Data |

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|-------------------------|-----------------------------------|--|
| Hazardous: | Not hazardous for transportation. | |
| Hazard Class: | N/A | |
| Packing Group: | N/A | |
| UN Number: | N/A | |
| Proper Shipping Name: | N/A | |

| | 15. Regulatory Information | |
|--------------------------------|----------------------------|--|
| Sec 302 Extremely Hazardous: | No | |
| Sec 304 Reportable Quantities: | N/A | |
| Sec 313 Toxic Chemicals: | No | |

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised:

03/05/2015

