LTS Research Laboratories, Inc. Safety Data Sheet Indium Zinc Alloy

| 1. Product and Company Identification | | |
|---------------------------------------|--|--|
| Trade Name: | Indium zinc | |
| Chemical Formula: | In-Zn | |
| Recommended Use: | Scientific res | search and development |
| Manufacturer/Supplier: | LTS Researc | ch Laboratories, Inc. |
| Street: | 37 Ramland | Road |
| City: | Orangeburg | |
| State: | New York | |
| Zip Code: | 10962 | |
| Country: | USA | |
| Tel #: | 855-587-243 | 86 / 855-lts-chem |
| 24-Hour Emergency Contact: | 800-424-930 | 00 (US & Canada) |
| | +1-703-527-3887 (International) | |
| | 2. Hazards | Identification |
| Signal Word: | Danger | |
| Hazard Statements: | | Beneficial for the sponger of the sp |
| Precautionary Statements: | P250 Keep away from heat/sparks. No smoking. P222+P232 Protect from air and moisture. | |
| HMIS Health Ratings (0-4): | Powder | Non-Powder |
| Health: | 1 | 0 |
| Flammability: | 3 | 0 |
| Physical: | 1 | 0 |
| | 3. Con | nposition |
| Chemical Family: | Metal alloy | |
| Additional Names: | Zinc indium alloy | |
| Indium (In): | 0.100 | |
| Percentage: | 0-100 wt% | |
| CAS #: | 7440-74-6 | |
| EC #: | 231-180-0 | |
| Zinc (Zn): | 0.100 | |
| Percentage: CAS #: | 0-100 wt% | |
| | 7440-66-6 | |
| EC #: | 231-175-3 | |

| | 4. First Aid Procedures |
|-------------------------------------|--|
| 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. |
| Skiii. | 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, except as powder |
| Extinguishing Media: | Do not use water for metal fires – use CO ₂ , sand, extinguishing powder. |
| 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. |
| | Take care not to raise dust. |
| Environmental Precautions: | 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 |
| Ventilation: | compressed air. Provide sufficient ventilation to maintain concentration at or below |
| ventilation. | threshold limit. |
| 8. | . Exposure Controls and Personal Protection |
| Permissible Exposure Limits: | 0.1 mg/m ³ as In, long-term value |
| Threshold Limit Value: | 0.1 mg/m^3 as In, long-term value |
| Special Equipment: | None |
| Respiratory Protection: | Dust Respirator |
| Protective Gloves: | Rubber gloves |
| Eye Protection: Body Protection: | Safety glasses or goggles Protective work election. Wear close tead shees and long |
| Body Protection: | Protective work clothing. Wear close-toed shoes and long sleeves/pants. |
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| 9. Physical and Chemical Characteristics | | |
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| Color | Metallic grey | |
| Form: | Powder, Granules, Pellets, Sputtering target, Custom parts | |
| Odor: | Odorless | |
| Water Solubility: | Insoluble | |
| Boiling Point: | N/A < 420 °C N/A N/A ~7.2 g/cc | |
| Melting Point: | | |
| Flash Point: | | |
| Autoignition Temperature: | | |
| Density: | | |
| Molecular weight: | N/A | |
| | 10 Desetivity | |
| | 10. Reactivity | |
| Stability: | Stable under recommended storage conditions | |
| Reacts With: | Oxidizing agents, Acids, Bases, Air, Water | |
| Incompatible Conditions: | Heat, Sparks, Air, Moisture | |
| 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/A | |
| | Respond | |
| Signs & Symptoms: | N/A horatories inc. | |
| Aggravated Medical Conditions: | N/A | |
| Median Lethal Dose: | N/A | |
| Carcinogen: | N/A | |
| | 12. Ecological Information | |
| Aquatic Toxicity: | Low | |
| 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.

| Hazardous: | Hazardous as powder only. |
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| Hazard Class: | 4.3 Substances which, in contact with water, emit flammable gases |
| Secondary: | 4.2 |
| Packing Group: | II |
| UN Number: | UN3189 |
| Proper Shipping Name: | Metal Powder, water reactive, self-heating, n.o.s. (Indium zinc) |
| Note: | For compositions with low zinc fraction, may be downgraded to |
| | 4.1 III UN3089 |
| | 15. Regulatory Information |
| Sec 302 Extremely Hazardous: | No |
| Sec 304 Reportable Quantities: | N/A |
| Sec 313 Toxic Chemicals: | Yes |
| | 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.

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