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| **1. Identification** | | | | | | | | | | | | |
| **Product Name:** | LFCP Lead Free Copper Paste | | | | | | | | | | | |
| **Application:** | Lead free anti-seize lubricant | | | | | | | | | | | |
| **Appearance:** | Smooth, gold coloured grease. | | | | | | | | | | | |
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| **2. Composition** | | | | | | | | | | | | |
| **General:** | Micro sized particles of copper in a non-melt grease with inhibitors | | | | | | | | | | | |
| **Hazardous Ingredients:** | Ingredients | | | | | | CAS | | REACH | | Classification 67/548/EEC | Regulation (EC) No. 1272/2008 (CLP) |
| Blend of mineral oils | | | | | | 64742-52-5 | | 01-2119467170-45 | | Not Classified | Not Classified |
| 64742-54-7 | | 01-2119484627-70 | | Not Classified | Not Classified |
|  | | | | | | | | | | | | |
| **3. Hazard Identification** | | | | | | | | | | | | |
| This product is not classified as hazardous and there are no R – Phrases or S – Phrases associated. | | | | | | | | | | | | |
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| **4. First Aid Measures** | | | | | | | | | | | | |
| **Eyes:** | Wash out eye with plenty of water. Obtain medical attention if soreness or redness persists | | | | | | | | | | | |
| **Skin:** | Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. If irritation develops and persists, seek medical attention. Should grease be accidently injected under the skin no matter how minor, seek IMMEDIATE medical attention. | | | | | | | | | | | |
| **Ingestion:** | DO NOT induce vomiting. Immediately wash out mouth with water, and then give plenty of water to drink. Seek medical attention. | | | | | | | | | | | |
| **Inhalation:** | Remove patient to fresh air. Ensure airways are clear and have qualified person give oxygen through facemask if breathing is difficult. If irritation develops, seek medical attention.  Note: inhalation is unlikely during normal intended usage. | | | | | | | | | | | |
| **Other:** | No special first aid facilities are required. | | | | | | | | | | | |
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| **5. Fire Fighting Measures** | | | | | | | | | | | | |
| **Extinguisher Media:** | | | | Use water as fog or spray to cool fire exposed containers. Do not use direct stream of water; product will float and possible re-ignite. | | | | | | | | |
| **Product of Combustion:** | | | | Oxides of carbon maybe produced if this product was to burn. | | | | | | | | |
| **Protective Equipment:** | | | | Self contained breathing apparatus and full protective clothing should be worn | | | | | | | | |
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| **6 Accidental Release Measures** | | | | | | | | | | | | |
| Spills procedure: SMALL - 20 LITRES OR LESS  Soak up with inert oil absorbent. Arrange for disposal through an approved facility.  Spills procedure: LARGE GREATER THAN 20 LITRES  Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimise exposure. If possible contain the spill. Place inert, absorbent material such as vermiculite, sand or dirt onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. If large quantities of this material enter the waterways, contact the Environmental Protection Authority or your local Waste Management Authority. | | | | | | | | | | | | |
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| **7. Storage & Handling** | | | | | | | | | | | | |
| **Handling Precautions:** | | | | | Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact; maintain high standards of personal hygiene, i.e. washing hands prior to eating, drinking or going to the toilet. Build-up of mists in the working atmosphere must be prevented. Misuse of empty containers can be hazardous. Do not cut, weld, heat or drill containers. Residue may ignite with explosive violence if heated sufficiently. Do not pressurise or expose to open flame or heat. Keep container closed and bung in place. | | | | | | | |
| **Storage Conditions:** | | | | | Classified as a combustible substance for storage and handling purposes. Store in a cool, dry, well-ventilated area, out of direct sunlight. Avoid sparks, flames, and other ignition sources. Store away from incompatible materials such as materials that support combustion (oxidising materials). Reference should be made to Australian Standard AS 1940. | | | | | | | |
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| **8. Exposure Controls / Personal Protection Measures** | | | | | | | | | | | | |
| **Exposure Limits:** | | | | | Substance TWA ppm TWA mg/m³ STEL ppm STEL mg/m³  Oil mist, mineral - 5 - 10  Copper powder - - - 1  \*Copper powder has an exposure limit of 1mg/m³ as a dust (ACGIH). It is highly unlikely that the copper powder in this product would contaminate the atmosphere as it is bound by the other ingredients. Exposure Standard means the average concentration of a particular substance in the worker’s breathing zone, exposed to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. If can be of three forms; time-weighted average (TWA), peak limitation, or short-term exposure limit (STEL). | | | | | | | |
| **Personal Protection:** | | | | | **Engineering Controls**  No special ventilation required  **Respiratory Protection**  Avoid breathing vapours or mists. Select and use respirators in accordance with AS/NZS 1715/1716. When vapours are generated, the use of the following is recommended: Half face piece respirator with dust/mite filters. The appropriate filter capacity and respirator type will depend on exposure levels encountered.  **Skin Protection**  Use of impervious rubber gloves is recommended. Clothing should be suitable to avoid product contacting the skin on a prolonged or repeated basis.  **Eye Protection**  Chemical safety goggles are recommended. If handled hot, a full face shield should be worn. | | | | | | | |
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| **9. Physical & Chemical Properties** | | | | | | | | | | | | |
| **Appearance:** | | | | | | | | Smooth gold coloured grease. | | | | |
| **Odour:** | | | | | | | | Negligible / Odourless. | | | | |
| **Flash Point (PMCC):** | | | | | | | | >200OC | | | | |
| **Boiling Point:** | | | | | | | | >200OC | | | | |
| **Melting point:** | | | | | | | | >200OC | | | | |
| **Solubility in Oil / Water:** | | | | | | | | Soluble in Oil / Insoluble in Water | | | | |
| **pH:** | | | | | | | | N/A | | | | |
| **Specific gravity:** | | | | | | | | 0.90 g/cm3 | | | | |
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| **10. Stability & Reactivity** | | | | | | | | | | | | |
| **Stability:** | | Stable under normal conditions of storage and handling. No dangerous reactions known | | | | | | | | | | |
| **Incompatibility:** | | Strong oxidising agents. Avoid High Temperatures (Above 200 OC) | | | | | | | | | | |
| **Decomposition:** | | Combustion will generate smoke & oxides of carbon | | | | | | | | | | |
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| **11.Toxicological Information** | | | | | | | | | | | | |
| **Acute Toxicity** | | | No toxic components | | | | | | | | | |
| **Corrosively / Irritation** | | | Non irritating to skin/eye/respiratory track | | | | | | | | | |
| **Sensitisation** | | | No evidence of sensitisationlocal necrosis and tissue damage. | | | | | | | | | |
| **Repeat Dose Toxicity** | | | No evidence | | | | | | | | | |
| **Mutagenicity / Carcinogenicity** | | | No evidence | | | | | | | | | |
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| **12. Ecological Information** | | | | | | | | | | | | |
| **Mobility:** | | Spillages are unlikely to penetrate the soil. | | | | | | | | | | |
| **Persistence & Degradability:** | | This product is inherently biodegradable. | | | | | | | | | | |
| **Bioaccumulative Pollution:** | | Product is not expected to bio-accumulate. | | | | | | | | | | |
| **Aquatic toxicity:** | | Product is not soluble in water | | | | | | | | | | |
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| **13. Disposal Considerations** | | | | | | | | | | | | |
| Dispose of waste according to federal, EPA, state and local regulations. Assure conformity with all applicable regulations. | | | | | | | | | | | | |
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| **14. Transportation** | | | | | | | | | | | | |
| UN CLASS:  ADR/RID – CLASS:  IMDG – CLASS:  IATA – CLASS: | | | | | | | | | | Not classified.  Not classified.  Not classified.  Not classified. | | |
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| **15. Regulatory Information** | | | | | | | | | | | | |
| **Hazard Label Data:** | | | | | | None | | | | | | |
| **Risk and Safety Phrases:** | | | | | | None | | | | | | |
| **E.C. Directives:** | | | | | | Conforms to regulation (EC) No 1907/2006 (REACh) Annex II | | | | | | |
| **Statutory Information:** | | | | | | Supply regulations; classified as non hazardous under DPD/GHS/CLP criteria.  Transport regulations classified as non hazardous under ADR/RID/IMDG/ICAO/IATA | | | | | | |
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| **16. Other Information** | | | | | | | | | | | | |
| To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user.  For industrial use only. Lubricant.  S- Phrases: None  R – Phrases: None  Conforms to regulation (EC) No 1907/2006 (REACh) Annex II | | | | | | | | | | | | |