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| **Substance** | **Soldering activities - rosin free and lead free** (This sheet does not cover fluxes containing rosin (colophony) or lead solders | | **UN No: Unclassified**  **Class Code:**  **Transport Cat:** | | **University Hazard Classification** | | **Medium** |
| **Activity** | **Jointing and repairing metals and printed circuit boards (PCBs)** | | | | | | |
| **Handling Requirements e.g. fume cupboard, MSC, glove type etc.** | Fume extraction should be used when carrying out these activities. Tip extract units should include both activated carbon and HEPA filters where the units are not connected to an exhaust system. Individual bench extraction boxes must have carbon and HEPA filters and need to be sited correctly. Where engineering controls are not available the activity must take place a well ventilated area and be short duration. Where the flux application is separate to the solder, skin contact must be avoided and the flux should be applied using an applicator or brush. | | | | | | |
| **Laboratory Info** | **As appropriate to the department (include room number and containment level as appropriate)** | | | | | | |
| **Additional Information** | If you suffer from asthma or any other breathing related condition, you must wear a disposable respirator (FFP2) where LEV is not available and the task is short duration. All users must report any changes in health status to Occupational Health where they believe the health changes are related to these activities. | | | | | | |
| **Hazard Statements**  Not classified under CLP Regulations because it is not hazardous as supplied.  However, in use this can change – frequency and duration dependent | Flux irritating to the skin  Repeated exposure can cause skin reddening, soreness and/or itching of the skin. | Soldering fume can be irritating to the respiratory system    Fumes can irritate the nose, throat and respiratory tract May lead to sensitisation | | Soldering fumes can be irritating to eyes    Flux fumes may irritate the eyes causing reddening, soreness and/or itching. May lead to sensitisation and/or eye damage | |  | |
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| **Handling Precautions**  Do not breathe fumes.  Use bench top / solder tip fume extraction or LEV. | Wear eye protection (EN166) – solder can ‘spit’ | Avoid skin contact with flux – Use applicator/brush. | |  | |  | |
| **Storage & Transport** | Store in cool, dry area. No other specific transport requirements. | | | | | | |
| **Spillage and Waste Disposal** | **Spillage:** Wear Nitrile gloves (EN374) and ensure adequate ventilation.   * Flux – Scrape up paste and contain in plastic bags. * Solder – collect in lidded container. * Used soldering sponges and contaminated rags should be placed in a sealable bag.   **Waste:** Dispose of all soldering waste as hazardous waste in line with written departmental procedures. | | | | | | |
| **First Aid** | **EYES:**  Rinse immediately with plenty of clean running water for at least 15 minutes. Seek medical advice | | | | | | |
| **SKIN:** Burn – Immediately place any burn under cold running water for 15 minutes. Flux paste - wash well with soap and water. Seek medical advice if irritation persists | | | | | | |
| **INHALATION:**  Fumes: Remove to fresh air, seek medical advice | | | | | | |
| **INGESTION:**  Do not induce vomiting. Keep casualty warm. Refer casualty to hospital. | | | | | | |