MATERIAL SAFETY DATA SHEET (MSDS)

Tin Solder 60/40 – Solid Wire on Spool (3 mm)

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1. Identification of the substance/mixture and company

Use: soldering material for stained glass, lead profiles, electronics, restoration. Restrictions: do not use in drinking water applications.

2. Composition/information on ingredients

Tin (Sn), CAS 7440-31-5, 60% – inert metal, low toxicity. Lead (Pb), CAS 7439-92-1, 40% – GHS08, Repr.1A, H360Df, H373.

3. Hazards identification

Classification: Repr.1A – H360Df, H373. Signal word: DANGER. Hazards: may damage the unborn child, cause organ damage through prolonged exposure.

4. First aid measures

Inhalation: move to fresh air. Skin: wash with soap and water. Eyes: rinse thoroughly with water. Ingestion: do not induce vomiting, seek medical attention. Thermal burns: cool and treat as burn injury.

5. Firefighting measures

Use dry powder, CO■ or foam. Avoid direct water jet. Toxic metal oxides may be released during fire. Wear self-contained breathing apparatus.

6. Accidental release measures

Ensure ventilation. Avoid dust formation. Collect mechanically. Prevent release to sewers or environment.

7. Handling and storage

Provide adequate ventilation. Avoid inhaling fumes. Store cool, dry, and closed, away from acids and oxidizers.

8. Exposure controls/personal protection

Occupational limit for lead: 0.15 mg/m³ (respirable fraction). Provide local exhaust. Use protective gloves, goggles, clothing, and respiratory protection if ventilation is insufficient.

9. Physical and chemical properties

Form: solid wire. Color: silver-grey. Melting range: 183–188°C. Density: 8.4–8.5 g/cm³. Insoluble in water. Stable under normal conditions.

10. Stability and reactivity

Stable under normal use. Avoid strong acids and oxidizing agents.

11. Toxicological information

Lead is toxic through chronic exposure; may affect nervous system, kidneys, and reproduction. Symptoms: headache, fatigue, neurological effects.

12. Ecological information

Lead is persistent and bioaccumulative. Toxic to aquatic life. Avoid environmental release.

13. Disposal considerations

Recycle whenever possible. Dispose residues as hazardous waste in accordance with local regulations.

14. Transport information

Not classified as dangerous under ADR/RID/IMDG/IATA regulations.

15. Regulatory information

Complies with CLP and REACH regulations. Contains lead – subject to REACH Annex XVII restrictions.

16. Other information

This MSDS is based on current knowledge of tin-lead alloys and EU regulations. Users are responsible for compliance with local legislation and safe application.