



MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: 99C 362 5C

Product-Code: 289806

Intended use: Solder Wire

Supplier:

HENKEL AUSTRALIA PTY. LIMITED
ADHESIVE TECHNOLOGIES
135-141 Canterbury Road
3137 Kilsyth, Victoria

Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

SECTION 2. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE:

Not hazardous according to the criteria of ASCC.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Identity of ingredients:

| Chemical ingredients | CAS-No. | Proportion |
|----------------------|-----------|------------|
| Tin | 7440-31-5 | 60 - 100 % |
| Copper Metal | 7440-50-8 | 0.1 - 1 % |
| Rosin | 8050-09-7 | 1 - 10 % |

SECTION 4. FIRST AID MEASURES

Ingestion: Do not induce vomiting.
Seek medical advice.

Skin: Rinse with running water and soap.
Obtain medical attention if irritation persists.

Eyes: Flush eyes with plenty of water for at least 5 minutes. If irritation persists seek medical attention.

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.



MATERIAL SAFETY DATA SHEET

SECTION 5. FIRE FIGHTING MEASURES

- Suitable extinguishing media:** Carbon dioxide, foam, powder
Fine water spray
- Improper extinguishing agent:** Do not use water on fires where molten metal is present.
- Combustion behaviour:** The product itself does not burn. Any fire extinguishing action should be appropriate to the surroundings.
- Decomposition products in case of fire:** High temperatures may produce heavy metal dust, fumes or vapours.
The flux medium will give rise to irritating fumes.
- Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions and emergency procedures:** Avoid contact with skin and eyes.
- Environmental precautions:** Do not empty into drains / surface water / ground water.
- Clean-up methods:** Scrape up spilled material and place in a closed container for disposal.

SECTION 7. HANDLING AND STORAGE

- Precautions for safe handling:** Extraction is necessary to remove fumes evolved during reflow.
When using do not eat, drink or smoke.
Wash hands before breaks and immediately after handling the product.
- Conditions for safe storage:** Store in a dry place.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National exposure standards:

| Ingredient | form of exposure | TWA (ppm) | TWA (mg/m3) | Peak Limit. (mg/m3) | STEL (ppm) | STEL (mg/m3) |
|---|------------------|-----------|-------------|---------------------|------------|--------------|
| TIN, METAL 7440-31-5 | | | 2 | - | - | - |
| COPPER, DUSTS & MISTS (AS CU) 7440-50-8 | Dust and mist. | | 1 | - | - | - |
| | Fume. | | 0.2 | - | - | - |
| ROSIN CORE SOLDER PYROLYSIS PRODUCTS (AS FORMALDEHYDE) 8050-09-7 | | | 0.1 | - | - | - |

- Engineering controls:** Extraction is necessary to remove fumes evolved during reflow.
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.



MATERIAL SAFETY DATA SHEET

Eye protection: Wear protective glasses.

Skin protection: The use of chemical resistant gloves such as Nitrile are recommended.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey solid
Odor: None
Solubility: Solvent: Water, Insoluble

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: Stable under recommended storage conditions.

Incompatible materials: Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 11. TOXICOLOGICAL INFORMATION

HEALTH EFFECTS:

Ingestion: Not expected under normal conditions of use.

Skin: Prolonged contact with skin, particularly damaged skin, may cause sensitization or dermatitis in sensitive individuals.

Eyes: Rubbing may cause abrasion of cornea.

Inhalation: Fumes evolved at soldering temperatures will irritate the nose, throat and lungs.

SECTION 12. ECOLOGICAL INFORMATION

General ecological information: Do not empty into drains / surface water / ground water.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal of product: Wherever possible unwanted solder alloy should be recycled for recovery of metal. Otherwise dispose of in accordance with local and national regulations.



MATERIAL SAFETY DATA SHEET

SECTION 14. TRANSPORT INFORMATION

Road and Rail Transport:

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

General information:

Not hazardous according to RID, ADR, ADNMR, IMDG, IATA-DGR.

SECTION 15. REGULATORY INFORMATION

SUSDP Poisons Schedule: None

AICS: All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: ASCC - Australian Safety and Compensation Council
SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons

Disclaimer:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel Australia Pty. Limited concerning the properties of the material. The information contained in this Material Safety Data Sheet is offered in good faith and has been developed from what is believed to be accurate and reliable sources. The information is offered without warranty, representation, inducement or licence and Henkel Australia Pty. Limited assumes no legal responsibility for reliance upon same. Henkel Australia Pty. Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Material Safety Data Sheet. This information is not to be construed as a representation that the material is suitable for any particular purpose or use except those conditions and warranties implied by either Commonwealth or State statutes. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use.