

# HEAPS, ARNOLD & HEAPS LTD

Manufacturers of Lead, Tin & Solder Products

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## MSDS: SOLDER BS 219 99C

### *1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING*

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**Product Name:** SOLDER BS 219 99C

**Supplier:** Heaps, Arnold & Heaps Ltd, Quintec Court, Barbot Hall Industrial Estate, Rotherham, South Yorkshire, S61 4RN. TEL: 01709 837669

### *2. COMPOSITION/INFORMATION ON INGREDIENTS*

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|                    |           |             |
|--------------------|-----------|-------------|
| <b>Ingredient:</b> | Tin (Sn)  | Copper (Cu) |
| <b>Cas No:</b>     | 7440-31-5 | 7440-50-8   |
| <b>Content %:</b>  | 99.5      | 0.5         |

### *3. HAZARDS IDENTIFICATION*

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**Main Hazards:** There are no specific health hazards associated with these substances

### *4. FIRST AID MEASURES*

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**Inhalation:** Move person to fresh air.

**Ingestion:** Do not induce vomiting, encourage drinking of water. Seek immediate medical attention.

**Eye Contact from Dust:** Ensure that any contact lenses are removed from the eyes before rinsing. Irrigate eyes with plenty of water for 15 minutes and seek medical attention if irritation persists.

**Skin Contact:** Wash with water and soap.

#### ***5. FIRE-FIGHTING MEASURES***

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The ingots, sticks or wires are not considered to be flammable. In the event of a fire affecting the material the following measures are to be taken.

**Extinguishing Media:** Dry foam, sand, CO<sub>2</sub>.

#### ***6. ACCIDENTAL RELEASE MEASURES***

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**Personal Protection:** Not applicable

**Environmental Precaution:** Keep in a dry location, away from concentrated acids.

**Clean-up Procedures:** Sweep or pick up

#### ***7. HANDLING AND STORAGE***

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**Handling Precautions:** Do not inhale vapour or fumes during soldering. Avoid contact with drosses. Eating, drinking or smoking should be prohibited on the shop floor. Wear gloves, protective clothing and boots and follow standard personal hygiene procedures.

**Storage:** Store in a dry area, ensure that the floor loading is not exceeded. Scraps or drosses are to be kept/disposed in closed containers

#### ***8. EXPOSURE CONTROLS/PERSONAL PROTECTION***

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**Component:** Tin, 8hr TWA 2mg/m<sup>3</sup>. Copper, TWA 0.2mg/m<sup>3</sup> (fume) 1mg/m<sup>3</sup> (dust)

**Respiratory Protection:** Use to avoid inhalation of fumes or vapour during soldering

**Hand Protection:** Wear suitable gloves.

**Eye Protection:** Wear safety goggles when melting.

**Skin Protection:** Wear gloves and protective clothing. Follow standard personal hygiene procedures.

#### ***9. PHYSICAL AND CHEMICAL PROPERTIES***

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**Appearance:** Grey colour

**Melting Temperature:** 227°C

**Density:** 7.00g/cm<sup>3</sup>

**Odour:** None

**Flash Point:** N/A

**Solubility in Water:** Insoluble

#### ***10. STABILITY AND REACTIVITY***

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**Stability:** Stable under normal conditions at low temperature.

**Conditions to Avoid:** N/A

**Materials to Avoid:** Acid and water when molten

**Hazardous Decomposition Products:** In contact with concentrated acids, toxic gases may be given off.

#### ***11. TOXICOLOGICAL INFORMATION***

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None known

#### ***12. ECOLOGICAL INFORMATION***

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**Mobility:** As ingot, stick or wire not considered mobile. Dross considered mobile and capable of effecting the environment

**Degradation:** As with all heavy metals, considered persistent.

**Aquatic toxicology:** As sold, not applicable. As a dross, could be taken up by aquatic organisms.

#### ***13. DISPOSAL CONSIDERATIONS***

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**Waste from Residues:** Surplus metal may be returned to Heaps, Arnold & Heaps for recycling. Drosses are subject to hazardous waste regulations

**Contaminated Packaging:** N/A

#### ***14. TRANSPORT INFORMATION:***

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No restrictions on transportation.

#### ***15. REGULATORY INFORMATION***

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**Label for Supply:** N/A

**Text of Risk Phrases Used in Section 2:** N/A

**Text of Safety Phrases Used in Section 2:** N/A

**Statutory Instrument:** Chemicals (Hazards Information and Packaging) Regulations 2009 SI 716. Control of Substances Hazardous to Health 2002; SI 1000/437.

**Approved Codes of Practice:** Classification and Labelling of Substances and Preparations Dangerous for Supply. The Compilation of Safety Data Sheets (3rd Edition).

**Guidance:** Occupational Exposure Limits EH40 COSHH Essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations; HSG193 CHIP for Everyone HSG108.

## ***16. OTHER INFORMATION***

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The application of the soft metal presents negligible risks providing standard sensible workplace cleanliness is adopted. Working with molten materials requires the use of approved eye protection and other recognized personal protection such as approved protective face masks. It is recommended that a simple workplace risk assessment is made in accordance with the point stated on pages 1, 2 & 5 of the regulations. In general, working with the metal in the open air presents negligible risk providing adequate washing facilities are available at the workplace for hand cleaning. The data contained in this Safety Data Sheet has been supplied as required by the Chemical (Hazard Identification and Packaging) Regulations 2009, as amended, for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information. This information is given in good faith, being based on the latest knowledge available to Heaps, Arnold & Heaps. No known relevant information has been omitted from this Material Safety Data Sheet and the information provided is designed to enable the user to use the product safely. The user should not assume on the basis of the information provided in this sheet that the product is suitable for any abnormal use. The company cannot accept liability to any customer, their employees or any other person whatsoever for any loss, injury or damage, whether direct or consequential, which may be caused by any error or omission from this sheet, whether such error or omission is negligent or otherwise. If the information provided is insufficient to ensure safety in any particular application, contact Heaps, Arnold & Heaps for further advice before the proposed application is undertaken.