



MULTICORE SOLDERS
Henkel Loctite Adhesives Ltd
Product Safety & Regulatory Affairs

SAFETY DATA SHEET
CP1040 v1.0 RS 184-9985, 184-9991
RS CHIP3 MSDS Date 01/11/04
Sn62RM89AAS85 Solder Cream
Sn62RM89AAS85 1.00 RS-EN 13.10.04

This safety data sheet has been prepared in accordance with the requirements of the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 which implement EC Directives 1999/45/EC and 2001/58/EC, and provides information relating to the safe handling and use of the product.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code Sn62RM89AAS85
Manufacturer/Supplier HLA Multicore
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Hemel Hempstead, Hertfordshire,
HP2 4RQ, UK
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Supplied by:
RS Components Ltd.
Birchington Road, Corby, Northants, NN17 9RS.
Tel: (01536) 402888

2. COMPOSITION/INFORMATION ON INGREDIENTS

Nature Solder cream

Hazardous Components in Product for EC

Component Name	CAS	EINECS	Concentration	R Phrases	Classification
Tin/Lead/Silver alloy powder	-	-	85 - 95	-	-
Modified rosins	Proprietary	-	5 - 10	-	-

3. HAZARD IDENTIFICATION

This product contains modified rosin. Flux fumes emitted during reflow will irritate the nose and throat and may cause an asthmatic type reaction.

4. FIRST AID MEASURES

First Aid - Inhalation

Remove patient to fresh air. In case of respiratory difficulty seek medical attention.

First Aid - Skin

Wash with plenty of soap and water. If irritation persists, seek medical advice.

First Aid - Eyes

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

First Aid - Ingestion

Rinse mouth with water taking care not to swallow. Do not induce vomiting or give anything to drink if the patient has difficulty swallowing. Seek medical advice.

5. FIRE FIGHTING MEASURES

Use water spray, alcohol resistant foam, dry powder or carbon dioxide. High temperatures may produce heavy metal dust, fumes or vapours. The flux medium will give rise to irritating fumes. Fire fighters should wear positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Do not let product enter drains. Scrape up spilled material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling

Use in a well ventilated area. Avoid contact with skin. Do not eat, drink or smoke when handling. Wash hands before breaks and immediately after handling the product.

Storage

Store in original container at 5 to 10°C.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Lead	0.15 mg/m ³
Rosin flux fume (as total resin acids)	MEL: 0.05 mg/m ³ 8h TWA. MEL: 0.15 mg/m ³ 15 min.

Extraction is necessary to remove fumes evolved during reflow. Wear eye protection and plastic or rubber gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Paste
Colour	Grey
Odour	Mild
pH	Not applicable
Boiling Range/Point (°C)	256 (solvent)
Melting point (°C)	179 (solder alloy)
Flash Point (CC) (°C)	117
Specific Gravity	4.00
Solubility in Water (kg/m ³)	Immiscible
Solubility in Acetone	Partly miscible
Vapour Pressure(mmHg @ 25°C)	Not determined
Explosion Limits (%)	No data

10. STABILITY AND REACTIVITY

Stable under normal conditions. Avoid contact with strong oxidising agents. Solder alloy will react with concentrated nitric acid toxic fumes of nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Inhalation

Fumes evolved at soldering temperatures will irritate the nose, throat and lungs. Prolonged or repeated exposure to flux fumes may result in sensitisation in sensitive workers.

Skin

Prolonged skin contact may cause skin irritation and/or dermatitis.

Eyes

Contact with eyes will cause irritation.

Ingestion

May cause irritation to the digestive tract. May cause nausea, vomiting and abdominal pain. Chronic overexposure to lead may result in damage to the blood forming, nervous, urinary and reproductive systems. Severe lead toxicity will cause sterility, abortion and neonatal mortality and morbidity.

12. ECOLOGICAL INFORMATION

The product is not biodegradable. Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Wherever possible unwanted solder pastes should be recycled for recovery of metal. Otherwise dispose of as hazardous waste in accordance with local and national regulations. Incineration under controlled conditions recommended.

European Waste Catalogue: 16 03 03 - inorganic wastes containing dangerous substances.



14. TRANSPORT INFORMATION

UN Number	None
AIR (IATA)	Not regulated
Sea (IMO)	Not regulated
Road (ADR)/Rail(RID)	Unrestricted

15. REGULATORY INFORMATION

Contains Lead
Labelling Information Harmful



R phrases R42 May cause sensitisation by inhalation (flux fumes).
S phrases S23 Do not breathe fumes.
S24 Avoid contact with skin.
S37 Wear suitable gloves.

Voluntary Labelling Not applicable.

Explanation of Section 2 R - Phrases
Not applicable

Applicable UK Legislation and guidance

The Health & Safety at Work etc. Act
The Control of Substances Hazardous to Health Regulations 2002
L5: General Approved Code of Practice to the COSHH Regulations
HS(G)97: A Step by Step Guide to the COSHH Regulations
HS(G)193: COSHH essentials: Easy steps to control chemicals
The Control of Lead at Work Regulations 2002
L132: Control of Lead at Work: Approved Code of Practice and Guidance
IND(G)248L: Solder fume and you
IND(G)249L: Controlling health risks from rosin (colophony) based solder fluxes

Employees should be under medical surveillance if the risk assessment made under the Control of Lead at Work Regulations indicates they are likely to be exposed to significant concentrations of lead, or if an Employment Medical Advisor or appointed doctor so certifies.

A woman employed on work which exposes her to lead should notify her employer as soon as possible if she becomes pregnant. The Employment Medical Advisor / Appointed Doctor should be informed of the pregnancy.

Under the Management of Health and Safety at Work Regulations, employers are required to assess the particular risks to health at work of pregnant workers and workers who have recently given birth or who are breast feeding.

16. OTHER INFORMATION

MSDS first issued: 13 October 2004

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Further Information may be obtained from:-



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16. OTHER INFORMATION

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This safety data sheet was prepared in accordance with Commission Directive 2001/59/EC adapting to technical progress for the 28th time Council Directive 67/548/EEC and Commission Directive 1999/45/EC.
