

MULTICORE SOLDERS

A Division of Henkel Loctite Adhesives Limited Health & Regulatory Affairs

96SC RP11 Solder Creams 96SC RP11 4.00 EN 21.05.03

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 96SC RP11 Solder Creams

Manufacturer/Supplier HLA Multicore

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Nature Solder creams

Hazardous Components in Product for EC

Component Name CAS EINECS Concentration R Phrases Classification

Tin/Silver/Copper alloy powder - - 85 - 95 - - Rosin 8050-09-7 232-475-7 1 - 5 R43 Xi

3. HAZARD IDENTIFICATION

May cause sensitisation by skin contact. The flux fumes given off during reflow will irritate the eyes, nose and respiratory system. Prolonged or repeated exposure to flux fumes may cause an asthmatic reaction in sensitive individuals. Contact with flux residues may cause skin irritation.

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 toxic fumes and vapours containing heavy metals. The flux will evolve irritating fumes. Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Avoid repeated or prolonged skin contact. Scrape up spilled material and place in sealed container for disposal.

7. HANDLING AND STORAGE

Handling

Use in a well ventilated area. Avoid contact with skin. Do not eat, drink or smoke during use. Wash hands after handling solder paste.



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7. HANDLING AND STORAGE

Storage

Store in a cool, dry place in closed containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Rosin flux fume (as total resin acids) MEL: 0.05 mg/m³ 8h TWA.
MEL: 0.15 mg/m³ 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
pH
Not applicable
Boiling Range/Point (°C)
274 (solvent)
Melting point (°C)
217 (solder alloy)

Flash Point (CC) (°C) >1204

Specific Gravity 3.80 - 5.66

Solubility in Water (kg/m³) 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. Toxic effects may be delayed, sudden and severe. Obtain medical attention urgently.

11. TOXICOLOGICAL INFORMATION

Inhalation

Product is of low volatility and should not present a risk at ambient temperatures. The flux fumes evolved during reflow will irritate the nose, throat and lungs. Repeated or prolonged exposure to flux fumes may cause an allergic affect which may lead to occupational asthma.

Skin

May cause sensitisation by skin contact. Solder pastes may have a degreasing action on the skin. Contact with flux residues may cause irritation and sensitisation.

Eyes

Contact with eyes will cause irritation.

Ingestion

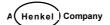
May irritate the digestive tract and cause nausea if swallowed.

12. ECOLOGICAL INFORMATION

The product is not biodegradable.

13. DISPOSAL CONSIDERATIONS

Wherever possible unwanted solder pastes should be recycled for recovery of metal. Otherwise





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13. DISPOSAL CONSIDERATIONS

dispose of in accordance with local and national regulations. Incineration under controlled conditions recommended.

14. TRANSPORT INFORMATION

UN Number None

AIR (IATA)

Sea (IMO)

Road (ADR)/Rail(RID)

Not classified

Not classified

15. REGULATORY INFORMATION

Contains

Labelling Information



Rosin

Harmful

R phrases R42/43 May cause sensitisation by inhalation (flux fumes) and

skin contact.

S phrases S23 Do not breathe fumes.

S24 Avoid contact with skin. S37 Wear suitable gloves.

Voluntary Labelling Not applicable.

Hazardous Components in Product for EC

Component Name R Phrases

Rosin R43

R43 May cause sensitisation by skin contact

Applicable EC Directives

Directive 98/24/EC on the protection of the health and safety of workers from the risk related to exposure to chemicals at work (Chemical Agents Directive)

Applicable UK Legislation and guidance

The Health and Safety at Work etc. Act 1974

The Control of Substances Hazardous to Health Regulations 2002

L5 Approved Codes of Practice to the COSHH Regulations.

EH40 Occupational Exposure Limits (revised annually)
HS G 37 An Introduction to Local Exhaust Ventilation.

HS G 61 Surveillance of People Exposed to Health Risks at Work.

HS G 97 A Step by Step Guide to the COSHH Regulations.
HS G 193 COSHH essentials: Easy steps to control chemicals.

L55 Preventing Asthma at Work: How to Control Respiratory Sensitisers.

MS24 Medical Aspects of Occupational Skin Diseases.
MS25 Medical Aspects of Occupational Asthma.
INDG 95L Respiratory Sensitisers: A Guide for Employers.

INDG 172L Breathe Freely - A Workers' Information Card on Respiratory Sensitisers.

INDG 248L Solder Fume and You.

INDG 249L Controlling Health Risks from Rosin (Colophony) Based Solder Flux Fume.

MDHS 83 Methods for the Determination of Hazardous Substances. Resin Acids in Rosin

(Colophony) Solder Flux Fume.

16. OTHER INFORMATION

MSDS data revised 21 May 2003



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16. OTHER INFORMATION

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Further Information may be obtained from:-

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The information in this safety data sheet was obtained from reputable sources and to the best of our knowledge is accurate and current at the mentioned date. Neither HLA Multicore nor its subsidiary companies accept any liability arising out of the use of the information provided here or the use, application or processing of the product(s) described herein. Attention of users is drawn to the possible hazards from improper use of the product(s).

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.