

MULTICORE SOLDERS

A Division of Henkel Loctite Adhesives Limited Health & Regulatory Affairs **99C Crystal 502 Solder wire** 99C C502 7.00 EN 14.01.04

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
Manufacturer/Supplier
Address

Multicore 99C Crystal 502 HLA Multicore Kelsey House, Wood Lane End, Hemel Hempstead, Hertfordshire, HP2 4RQ, UK

Phone Number Fax Number

+44 (0) 1442 269554

+44 (0) 1442 233233

Emergency Phone Number +44 (0) 1442 233233

2. COMPOSITION/INFORMATION ON INGREDIENTS

NatureLead-free, flux-cored solder wireHazardous Components in Product for ECComponent NameCASEINECSConcentrationR PhrasesClassificationTin/Silver alloy--95 - 100--Modified rosinProprietary-1 - 5--

3. HAZARD IDENTIFICATION

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 and sensitisation.

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

Seek medical advice.

5. FIRE FIGHTING MEASURES

Use water spray, alcohol resistant foam, dry powder or carbon dioxide. Do not use water on molten metal. 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

Not applicable.

7. HANDLING AND STORAGE

Handling

Use in a well ventilated area. Do not eat, drink or smoke during use. Wash hands after handling solder wire.

Storage

Store in a cool, dry area. Keep out of reach of children and away from food and drink.





MULTICORE SOLDERS

A Division of Henkel Loctite Adhesives Limited Health & Regulatory Affairs 99C Crystal 502 Solder wire 99C C502 7.00 EN 14.01.04

SAFETY DATA SHEET

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Colour	Grey
Odour	None
рН	Not applicable
Boiling Range/Point (°C)	Not determined
Melting point (°C)	227 - 240 (solder alloy)
Flash Point (CC) (°C)	None
Specific Gravity	7.3
Solubility in Water (kg/m³)	Insoluble
Solubility in Acetone	Insoluble
Vapour Pressure (mmHg @ 25°C)	None
Explosion Limits (%)	Not applicable

10. STABILITY AND REACTIVITY

Stable under normal conditions. Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides. Toxic effects may be delayed, sudden and severe. Obtain medical attention urgently.

11. TOXICOLOGICAL INFORMATION

Inhalation

The product does not present a risk at ambient temperatures. The flux fumes evolved during soldering 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

Contact with flux fumes and flux residues may cause irritation and sensitisation.

Eyes

Flux fumes may cause irritation.

Ingestion

This product is of low toxicity.

12. ECOLOGICAL INFORMATION

The product is not biodegradable.

13. DISPOSAL CONSIDERATIONS

Wherever possible unwanted solder wire should be recycled for recovery of metal. Otherwise dispose of in accordance with local and national regulations.

14. TRANSPORT INFORMATION

UN Number None

AIR (IATA)

Not classified





MULTICORE SOLDERS

A Division of Henkel Loctite Adhesives Limited Health & Regulatory Affairs

SAFETY DATA SHEET

99C Crystal 502 Solder wire 99C C502 7.00 EN 14.01.04

14. TRANSPORT INFORMATION

Sea (IMO) Road (ADR)/Rail(RID) Not classified Not classified

15. **REGULATORY INFORMATION**

Contains Labelling Information	Not classified	Not applicable
R phrases S phrases Voluntary La	belling	None None Avoid breathing fumes given out during soldering. Flux fumes may irritate the nose, throat and lungs and may after prolonged/repeated exposure give an allergic reaction (asthma.)

After handling solder wash hands with soap and water before eating drinking and smoking.

Keep out of reach of children.

Hazardous Components in Product for EC

Component Name	R Phrases
Not applicable	-

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. A Step by Step Guide to the COSHH Regulations. HS G 97 COSHH essentials: Easy steps to control chemicals. HS G 193 L55 Preventing Asthma at Work: How to Control Respiratory Sensitisers. MS24 Medical Aspects of Occupational Skin Diseases. **MS25** Medical Aspects of Occupational Asthma. Respiratory Sensitisers: A Guide for Employers. INDG 95L 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

14 January 2004

Prepared by:

Barry Chase Senior Specialist Health & Regulatory Affairs





MULTICORE SOLDERS A Division of Henkel Loctite Adhesives Limited Health & Regulatory Affairs

16. OTHER INFORMATION

Further Information may be obtained from:-

HLA Multicore Wood Lane End Hemel Hempstead Herts HP2 4RQ] United Kingdom

Tel: +44 (0) 1442 233233 Fax: +44 (0) 1442 269554

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.

99C Crystal 502 Solder wire 99C C502 7.00 EN 14.01.04

SAFETY DATA SHEET