

#### MULTICORE SOLDERS

# A Division of Henkel Loctite Adhesives Limited Health & Regulatory Affairs

**99C EN 362 Solder wire** 99C EN 362 1.00 EN 29.07.03

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 Multicore 99C EN 362

Manufacturer/Supplier HLA Multicore

Address Kelsey House, Wood Lane End,

Hemel Hempstead, Hertfordshire,

HP2 4RQ, UK

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Nature Lead-free, flux-cored solder wire

**Hazardous Components in Product for EC** 

Component Name CAS EINECS Concentration R Phrases Classification

Tin/Silver alloy - - 95 - 100 - - Rosin 8050-09-7 232-475-7 1 - 5 R43 Xi

#### 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.



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# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Rosin flux fume (as total resin acids) MEL: 0.05 mg/m<sup>3</sup> 8h TWA.

MEL: 0.15 mg/m<sup>3</sup> 15 min.

Extraction is necessary to remove fumes evolved during reflow.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Colour Grey
Odour None

pH Not applicable
Boiling Range/Point (°C) Not determined

Melting point (°C) 227 - 240 (solder alloy)

Flash Point (CC) (°C)

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



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#### 14. TRANSPORT INFORMATION

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

## 15. REGULATORY INFORMATION

Contains Not applicable

Labelling Not Information classified

R phrases None S phrases None

Voluntary Labelling 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

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)

Approved Codes of Practice to the COSHH Regulations.

### Applicable UK Legislation and guidance

The Health and Safety at Work etc. Act 1974

The Control of Substances Hazardous to Health Regulations 2002

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 29 July 2003

Prepared by:

L5

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Health & Regulatory Affairs



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## 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.