

MULTICORE SOLDERS

A Division of Henkel Loctite Adhesives Limited Health & Regulatory Affairs

Sn62EN Crystal 505 Solder wire Sn62EN C505 10.00 EN 03.06.03

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 Sn62EN Crystal 505

Manufacturer/Supplier HLA Multicore

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Nature Flux-cored solder wire

Hazardous Components in Product for EC

Component Name CAS EINECS Concentration R Phrases Classification

 Tin/Lead/Silver alloy
 95 - 100

 Modified rosin
 Proprietary
 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. Solder alloys containing lead give off negligible lead fume at normal soldering temperatures and at temperatures up to 500°C. Lead is harmful if absorbed into the body and can cause lead poisoning, birth defects and other reproductive harm.

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



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7. HANDLING AND STORAGE

solder wire.

Storage

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Lead 0.15 mg/m³

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

pH Not applicable

Boiling Range/Point (°C) Lead fume will be significant above 500°C

Melting point (°C) 179 (solder alloy)

Flash Point (CC) (°C)

Specific Gravity

8.5

Solubility in Water (kg/m³)

Insoluble

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

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.





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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)

Sea (IMO)

Road (ADR)/Rail(RID)

Not classified

Not classified

15. REGULATORY INFORMATION

Contains Not applicable

Labelling Not Information Classified

R phrases None S phrases None

Voluntary Labelling Contains lead which may harm your health. Lead can cause

birth defects and other reproductive harm.

Regulations forbid the use of lead containing solder in any

private or public drinking water supply system.

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

The Control of Lead at Work Regulations 2002

L5	Approved	Codes	of Practice	to the CO	SHH Regulations.

L132 Approved Code of Practice to the Control of Lead at Work 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.



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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

3 June 2003

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Further Information may be obtained from:-

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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.