

#### MULTICORE SOLDERS

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

**96S EN Arax SS Solder wire** 96S EN Arax SS 3.00 EN 10.06.03

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 96S EN Arax SS

Manufacturer/Supplier HLA Multicore

Address Kelsey House, Wood Lane End,

Hemel Hempstead, Hertfordshire,

HP2 4RQ, UK

**Phone Number** +44 (0) 1442 233233

**Fax Number** +44 (0) 269554

**Emergency Phone Number** +44 (0) 1442 233233

## 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 - 100Ammonium chloride 12125-02-9 235-186-4 1 - 5 R22-36 Xn 215-676-4 R 25-34 Ammonium bifluoride 1341-49-7 1 - 5 T C

## 3. HAZARD IDENTIFICATION

Inhalation of the flux fumes given off at soldering temperatures will irritate the nose, throat and respiratory system. Repeated or prolonged exposure to flux fumes may cause shortness of breath and cough. Skin exposed to flux fume may develop irritation and rash. If absorbed into the body, fluorides may cause acute systemic poisoning.

## 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.



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## 7. HANDLING AND STORAGE

#### **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

Ammonium chloride fume OES: 10 mg/m<sup>3</sup> 8-hr TWA

STEL: 20 mg/m<sup>3</sup> 15 min

Fluoride (as F) STEL: 2.5 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) 221 (solder alloy)

Flash Point (CC) (°C)

Specific Gravity

7.5

Solubility in Water (kg/m³)

Solubility in Acetone

Nanour Pressure (mmHq @ 25°C)

None

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.

#### Skin

Contact with flux fumes and flux residues may cause irritation.

#### **Eyes**

Flux fumes may cause irritation.

#### Ingestion

Absorption of fluoride into the body may cause salivation, abdominal pain, nausea, vomiting and diarrhoea.

## 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.



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## 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 Avoid breathing fumes given out during soldering. Flux fumes

may irritate the nose, throat and lungs.

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 NameR PhrasesAmmonium chlorideR22-36Ammonium bifluorideR25-34

R22 Harmful if swallowed
R25 Toxic if swallowed
R34 Causes burns
R36 Irritating to eyes

#### 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.
Surveillance of People Exposed to Health Risks at Work.
A Step by Step Guide 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.

#### 16. OTHER INFORMATION

MSDS data revised 10 June 2003

Prepared by:

Barry Chase
Senior Specialist

Health & Regulatory Affairs

Further Information may be obtained from:-

HLA Multicore Wood Lane End





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## 16. OTHER INFORMATION

Hemel Hempstead Herts HP2 4RQ] United Kingdom

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

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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.