



## Material Safety Data Sheet



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Version: 1

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** NC-AA; NC-AB; NC-BB; NC-MW; NC-OO

**Item No. :** MBWICK

**Product type:** No Clean Desoldering Wick

**Region:** Europe

**Company Name & Address**

Henkel Loctite Adhesives Ltd.

Multicore Solders

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components CAS No.	EINECS-No.	%	Classification
Copper 7440-50-8	231-159-6	80 - 100	

**Additional Information:**

For the explanation of the listed risk phrases refer to Section 16.

### 3. HAZARDS IDENTIFICATION

This product contains modified rosin. Flux fumes emitted during reflow will irritate the nose and throat and may cause an asthmatic type reaction.

### 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.

**Eye contact:** Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**Ingestion:** Do not induce vomiting. Seek medical attention immediately.

**Skin contact:** Wash off with soap and plenty of water. Obtain medical attention if irritation persists.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** The product itself does not burn. Use extinguishing measures appropriate to local circumstances and the surrounding environment.

**Special fire fighting procedures:** Fire fighters should wear positive pressure breathing apparatus. Do not use water on fires where molten metal is present.

**Unusual fire or explosion hazards:** None.

**Hazardous combustion products:** High temperatures may produce heavy metal dust, fumes or vapours. The flux will give rise to irritating fumes.

## 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Do not allow material to contaminate ground water system.

**Clean-up methods:** Scrape up.

## 7. HANDLING AND STORAGE

**Handling:** Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when handling. Wash hands before breaks and immediately after handling the product.

**Storage:** Store in a cool, dry place. Keep out of reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous components CAS No.	ACGIH TLV	Austria	Belgium	Czech
<b>Copper</b> <b>7440-50-8</b>	0.2 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup> TWA	0.1 mg/m <sup>3</sup> MAK 0.1 mg/m <sup>3</sup> MAK 0.4 mg/m <sup>3</sup> STEL 1 mg/m <sup>3</sup> MAK 4 mg/m <sup>3</sup> STEL	0.2 mg/m <sup>3</sup> VLE 1 mg/m <sup>3</sup> VLE	0.1 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup> TWA

Hazardous components CAS No.	Estonia	Greece	Finland	France	Hungary
<b>Copper</b> <b>7440-50-8</b>	0.2 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup> TWA 0.2 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> STEL 1 mg/m <sup>3</sup> TWA 0.2 mg/m <sup>3</sup> TWA	0.1 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup> TWA	0.2 mg/m <sup>3</sup> VME 1 mg/m <sup>3</sup> VME 2 mg/m <sup>3</sup> VLE	4 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup> STEL 1 mg/m <sup>3</sup> TWA 0.1 mg/m <sup>3</sup> TWA

Hazardous components CAS No.	Germany	Ireland	Netherlands	Norway	Portugal
<b>Copper</b> <b>7440-50-8</b>	0.1 mg/m <sup>3</sup> MAK 0.2 mg/m <sup>3</sup> Peak	0.2 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup> TWA 2 mg/m <sup>3</sup> STEL	0.2 mg/m <sup>3</sup> MAC 1 mg/m <sup>3</sup> MAC	0.1 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup> TWA	0.2 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup> TWA

Hazardous components CAS No.	Poland	Spain	Sweden	UK EH40
<b>Copper</b> <b>7440-50-8</b>		0.2 mg/m <sup>3</sup> VLA-ED 1 mg/m <sup>3</sup> VLA-ED	0.2 mg/m <sup>3</sup> LLV 1 mg/m <sup>3</sup> LLV	0.2 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup> TWA 0.6 mg/m <sup>3</sup> STEL 2 mg/m <sup>3</sup> STEL
<b>Modified rosin</b>				Rosin flux fume: 0.05 mg/m <sup>3</sup> MEL TWA (As total resin acids) 0.15 mg/m <sup>3</sup> MEL STEL (As total resin acids)

**Engineering controls:** Extraction is necessary to remove fumes evolved during reflow. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Skin protection:** No special protective equipment required.

**Eye/face protection:** Safety glasses should be worn.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	solid
<b>Colour:</b>	copper
<b>Odour:</b>	none
<b>pH:</b>	not applicable
<b>Vapour pressure:</b>	negligible vapour pressure at ambient temperatures
<b>Boiling point/range:</b>	not determined
<b>Melting point/range:</b>	1083°C (1981°F) (copper)
<b>Specific gravity:</b>	8.9
<b>Vapour density:</b>	not applicable
<b>Flash point:</b>	not applicable
<b>Autoignition temperature:</b>	not applicable
<b>Solubility in water:</b>	insoluble
<b>Partition coefficient (n-octanol/water):</b>	not determined

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous polymerisation:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Thermal decomposition can lead to release of irritating gases and vapours.
<b>Conditions to avoid:</b>	Reacts with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	Fumes evolved at soldering temperatures will irritate the nose, throat and lungs. Prolonged or repeated exposure to flux fumes may result in sensitisation in sensitive workers.
<b>Skin:</b>	Fumes emitted during soldering may irritate the skin.
<b>Eyes:</b>	Fumes emitted during soldering may irritate the eyes.
<b>Ingestion:</b>	This material is considered to have low toxicity if swallowed.

## 12. ECOLOGICAL INFORMATION

<b>Mobility:</b>	No data available.
<b>Bioaccumulation:</b>	No data available.
<b>Ecotoxicity:</b>	No information available.
<b>Persistence and degradability:</b>	Not inherently biodegradable.
<b>WGK Water Classification (VwVwS):</b>	Class 1

### 13. DISPOSAL CONSIDERATIONS

#### Product

**Disposal methods:** Wherever possible unwanted product should be recycled for recovery of metal. Otherwise dispose of in accordance with local and national regulations.

**European Waste Catalogue:** 17 04 01 - copper, bronze, brass.

#### Packaging

**Disposal Methods:** Dispose of in accordance with local and national regulations.

### 14. TRANSPORT INFORMATION

#### ICAO/IATA (Air):

**Identification number:** None  
**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Packing group:** None

#### IMO/IMDG (Sea)

**Identification number:** None  
**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Packing group:** None

#### ADR/RID (Road/Rail)

**UN Number** None  
**Proper shipping name:** Unrestricted  
**Hazard class or division** None  
**Packing group** None

### 15. REGULATORY INFORMATION

**Indication of danger:** None.

**Risk Phrases:** None.  
**Safety Phrases:** None

**Additional 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). Keep out of reach of children.

**UK National regulations:** The Health & Safety at Work etc. Act  
The Control of Substances Hazardous to Health Regulations 2002  
L5: General Approved Code of Practice 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  
IND (G)248L: Solder fume and you(G)249L: Controlling health risks from rosin (colophony) based solder fluxes

### 16. OTHER INFORMATION

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**Explanation of Section 2 R - Phrases**

Not applicable.

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