

# Safety Data Sheet according to Regulation (EC) No 1907/2006

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SDS No.: 249903

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Replaces version from: 08.06.2015

LOCTITE NC-AB WICK known as NCAB SOLDER WICK EACH 5 FOOT

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

LOCTITE NC-AB WICK known as NCAB SOLDER WICK EACH 5 FOOT

#### **Contains:**

Rosin, maleated, polymer with Pentaerythritol

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: Desoldering wick

#### 1.3. Details of the supplier of the safety data sheet

Henkel Ltd Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000 Fax-no.: +44 1442 278071

ua-productsafety.uk@uk.henkel.com

## 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### Classification (CLP):

Skin sensitizer H317 May cause an allergic skin reaction. Category 1

#### 2.2. Label elements

## Label elements (CLP):



Signal word: Warning

Hazard statement: H317 May cause an allergic skin reaction.

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**Precautionary statement:** P261 Avoid breathing fume. P280 Wear protective gloves.

**Precautionary statement:** P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Response

#### 2.3. Other hazards

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 or smoking.

Keep out of reach of children.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Copper Metal 7440-50-8	231-159-6 01-2119480154-42	50- 100 %	
Pentaerythritol tetrabenzoate 4196-86-5	224-079-8	1-< 3 %	Acute Tox. 4 H302
Rosin, maleated, polymer with Pentaerythritol 68333-69-7		1-< 3 %	Skin Sens. 1 H317 Eye Irrit. 2 H319

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

Inhalation:

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

Skin contact:

Immediately wash skin thoroughly with soap and water.

Obtain medical attention if irritation persists.

Eye contact:

Flush eyes with plenty of water for at least 5 minutes. If irritation persists seek medical attention.

Ingestion:

Do not induce vomiting.

Seek medical advice.

## 4.2. Most important symptoms and effects, both acute and delayed

SKIN: Rash, Urticaria.

Prolonged or repeated contact may cause eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

# **SECTION 5: Firefighting measures**

#### Combustion behaviour:

The product itself does not burn. Any fire extinguishing action should be appropriate to the surroundings.

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

water, carbon dioxide, foam, powder

#### Extinguishing media which must not be used for safety reasons:

Do not use water on fires where molten metal is present.

## 5.2. Special hazards arising from the substance or mixture

High temperatures may produce heavy metal dust, fumes or vapours.

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes. See section 10.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

### 6.3. Methods and material for containment and cleaning up

Scrape up spilled material and place in a closed container for disposal.

# 6.4. Reference to other sections

See advice in section 8

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Extraction is necessary to remove fumes evolved during reflow.

When using do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

Avoid breathing fumes given out during soldering.

Avoid open flames.

## Hygiene measures:

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

Good industrial hygiene practices should be observed.

Do not eat, drink or smoke while working.

# 7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry place.

#### 7.3. Specific end use(s)

Desoldering wick

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# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Copper 7440-50-8 [COPPER, FUME]		0,2	Time Weighted Average (TWA):		EH40 WEL
Copper 7440-50-8 [COPPER, INHALABLE DUSTS AND MISTS (AS CU)]		1	Time Weighted Average (TWA):		EH40 WEL
Copper 7440-50-8 [COPPER, INHALABLE DUSTS AND MISTS (AS CU)]		2	Short Term Exposure Limit (STEL):		EH40 WEL

# **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Copper 7440-50-8 [COPPER (AS CU), DUSTS AND MISTS]		1	Time Weighted Average (TWA):		IR_OEL
Copper 7440-50-8 [COPPER (AS CU), FUME]		0,2	Time Weighted Average (TWA):		IR_OEL
Copper 7440-50-8 [COPPER (AS CU), DUSTS AND MISTS]		2	Short Term Exposure Limit (STEL):		IR_OEL

# **Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Copper Metal 7440-50-8	soil				65 mg/kg		
Copper Metal 7440-50-8	sewage treatment plant (STP)					230 μg/L	
Copper Metal 7440-50-8	sediment (marine water)				676 mg/kg		
Copper Metal 7440-50-8	aqua (freshwater)					7,8 μg/L	
Copper Metal 7440-50-8	aqua (marine water)					5,2 μg/L	
Copper Metal 7440-50-8	sediment (freshwater)				87 mg/kg		

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# **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Copper Metal 7440-50-8	Workers	dermal	Acute/short term exposure - systemic effects		273 mg/kg	
Copper Metal 7440-50-8	General population	inhalation	Acute/short term exposure - systemic effects		20 mg/m3	
Copper Metal 7440-50-8	General population	inhalation	Acute/short term exposure - local effects		1 mg/m3	
Copper Metal 7440-50-8	General population	inhalation	Long term exposure - local effects		1 mg/m3	
Copper Metal 7440-50-8	General population	dermal	Acute/short term exposure - systemic effects		273 mg/kg	
Copper Metal 7440-50-8	Workers	dermal	Long term exposure - systemic effects		137 mg/kg	
Copper Metal 7440-50-8	General population	dermal	Long term exposure - systemic effects		137 mg/kg	
Copper Metal 7440-50-8	Workers	inhalation	Acute/short term exposure - systemic effects		20 mg/m3	
Copper Metal 7440-50-8	Workers	inhalation	Long term exposure - local effects		1 mg/m3	
Copper Metal 7440-50-8	Workers	inhalation	Acute/short term exposure - local effects		1 mg/m3	

# **Biological Exposure Indices:**

None

# 8.2. Exposure controls:

Engineering controls:

Extraction is necessary to remove fumes evolved during reflow.

Ensure adequate ventilation, especially in confined areas.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

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Hand protection:

Wear refractive gloves while working with the hot melt.

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.

and/or

facial protection

Protective eye equipment should conform to EN166.

Skin protection:

Protective clothing that covers arms and legs.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

Do not breathe dust and vapors.

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Appearance solid

solid copper

Odor odourless

Odour threshold No data available / Not applicable

pH No data available / Not applicable

Initial boiling point Not applicable Flash point Product is a solid.

Decomposition temperature

No data available / Not applicable

Vapour pressure

No data available / Not applicable

Density 8,9000 g/cm3

(20 °C (68 °F))

Bulk density

No data available / Not applicable
Viscosity

No data available / Not applicable
Viscosity (kinematic)

No data available / Not applicable
Explosive properties

No data available / Not applicable

Solubility (qualitative) Insoluble

(20 °C (68 °F); Solvent: Water)

Solidification temperature No data available / Not applicable

Melting point 1.083,0 °C (1981.4 °F)

Flammability
No data available / Not applicable
Auto-ignition temperature
No data available / Not applicable
Explosive limits
No data available / Not applicable
Partition coefficient: n-octanol/water
No data available / Not applicable
Evaporation rate
No data available / Not applicable
Vapor density
No data available / Not applicable
Oxidising properties
No data available / Not applicable

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#### 9.2. Other information

No data available / Not applicable

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Strong oxidizing agents.

Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

Avoid contact with acids and oxidizing agents.

#### 10.5. Incompatible materials

See section reactivity.

#### 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors.

See section 5.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### General toxicological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

#### Inhalative toxicity:

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.

#### Skin irritation:

Prolonged or repeated contact may cause skin irritation.

Fumes emitted during soldering may irritate the skin.

# Eye irritation:

Prolonged or repeated contact may cause eye irritation.

Fumes emitted during soldering may irritate the eyes.

### Sensitizing:

May cause an allergic skin reaction.

## Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Pentaerythritol tetrabenzoate 4196-86-5	LD50	1.158 mg/kg	oral		rat	not specified
Rosin, maleated, polymer with Pentaerythritol 68333-69-7	LD50	> 5.000 mg/kg	oral		Sprague- Dawley rat	not specified

#### Acute inhalative toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		

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# Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Pentaerythritol	LD50	> 20.000 mg/kg	dermal		rabbit	not specified
tetrabenzoate						
4196-86-5						

## Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Copper Metal 7440-50-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)

# **SECTION 12: Ecological information**

#### **General ecological information:**

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

## 12.1. Toxicity

#### **Ecotoxicity:**

Do not empty into drains / surface water / ground water.

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Rosin, maleated, polymer with Pentaerythritol 68333-69-7	LC50	> 400 mg/l	Fish	96 h	Danio (Danio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Rosin, maleated, polymer with Pentaerythritol 68333-69-7	EL50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Rosin, maleated, polymer with Pentaerythritol 68333-69-7	EC50	> 1.000 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC0	1.000 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)

# 12.2. Persistence and degradability

## Persistence and Biodegradability:

The product is not biodegradable.

Hazardous components	Result		Route of	Degradability	Method
CAS-No.			application		
Rosin, maleated, polymer with	Not re	eadily	not specified	> 0 - < 60 %	OECD 301 A - F
Pentaerythritol	biodegradable.	-	-		
68333-69-7	-				

# 12.3. Bioaccumulative potential / 12.4. Mobility in soil

#### Mobility:

The product is insoluble and sinks in water.

### **Bioaccumulative potential:**

No data available.

## 12.5. Results of PBT and vPvB assessment

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Hazardous components CAS-No.	PBT/vPvB
Rosin, maleated, polymer with Pentaerythritol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
68333-69-7	Bioaccumulative (vPvB) criteria.

#### 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product disposal:

Wherever possible unwanted solder alloy should be recycled for recovery of metal.

Otherwise dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

Dispose of as unused product.

Waste code

06 04 05 - wastes containing other heavy metals

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

## **SECTION 14: Transport information**

### 14.1. UN number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

## 14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

# 14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

### 14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

# 14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

# **SECTION 15: Regulatory information**

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15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## National regulations/information (Great Britain):

Remarks The Health & Safety at Work Act 1974.

The Control of Substances Hazardous to Health Regulations. 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. IND(G)249L:Controlling health risks from rosin (colophony) based solder fluxes.

The Control of Lead at Work Regulations. L132:Control of Lead at Work:

Approved Code of Practice and Guidance.

Employees should be under medical surveillance if the risk assessment made under the Control of Lead at Work Regulations indicates they are likely to be exposed to significant concentrations of lead, or if an Employment Medical Advisor or appointed doctor so certifies.

A woman employed on work which exposes her to lead should notify her employer as soon as possible if she becomes pregnant. The Employment Medical Advisor / Appointed Doctor should be informed of the pregnancy.

Under the Management of Health and Safety at Work Regulations, employers are required to assess the particular risks to health at work of pregnant workers and workers who have recently given birth or who are breast feeding.

# **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

#### **Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.