

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

### **1.1 Product identifier**

#### **Trade name: 400-NS Series**

- **Other Means of Identification:** Super Wick No Clean
- **Related Part Number:**  
400-NS Series, 424-NS, 424-NS-10, 424-NS-10FT, 425-NS, 425-NS-10, 426-NS, 426-NS-10, 426-NS-10FT, 453-NS, 454-NS
- **UFI:** EUQ0-H07R-Q00Q-CXFK

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

- **Application of the substance / the mixture** No clean desoldering braid
- **Uses advised against**  
Do not use brazing soldering methods such as high temperature torch soldering/torch welding.

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

#### **Manufacturer/Supplier:**

MG Chemicals Ltd. (Head Office)  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA  
+(1) 905-331-1396  
info@mgchemicals.com

MG Chemicals  
Heame House, 23 Bliston Street  
Sedgely Dudley DY3 1JA.  
United Kingdom  
+(44) 1663 362888

MG Chemicalst Ltd.  
18-20, Msida Road,  
Gzira, GZR 1401  
MALTA

- **Further information obtainable from:** sds@mgchemicals.com

### **1.4 Emergency telephone number:**

3E (Access code: 335388)  
+(44) 20 3514787  
+(1) 760 476 3961  
UK Toll free: +(0) 800 680 0425

Members of the public seeking specific information on poisons should contact:  
In England and Wales: NHS 111 - dial 111  
In Scotland: NHS 24 - dial 111

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

#### **Classification according to Regulation (EC) No 1272/2008**

- Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin Sens. 1 H317 May cause an allergic skin reaction.

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# Safety data sheet

according to UK REACH

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## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

#### Hazard pictograms



GHS08

· **Signal word** Danger

#### Hazard-determining components of labelling:

Rosin

#### Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

#### Precautionary statements

P102 Keep out of reach of children.

P261 Avoid breathing fumes and vapors.

P280 Wear protective gloves.

P284 [In case of inadequate ventilation] wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P501 Dispose of contents and container in accordance with local, regional, and national regulations.

## 2.3 Other hazards

### Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.




· **Determination of endocrine-disrupting properties** Endocrine Disruptor substance  $\geq 0.1\%$  = none

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 7440-50-8 EINECS: 231-159-6 Index number: 029-024-00-X	copper	 Aquatic Chronic 2, H411	95.0%
CAS: 8050-09-7 EINECS: 232-475-7 Index number: 650-015-00-7	Rosin	 Resp. Sens. 1, H334;  Skin Sens. 1, H317	5.0%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:**

Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

· **After skin contact:**

Wash with plenty water.

If skin irritation or rash occurs: Get medical advice or attention.

Take off contaminated clothing and wash it before reuse.

· **After eye contact:**

Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If symptoms persist consult doctor.

· **After swallowing:**

Rinse mouth.

Do NOT induce vomiting.

If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

## SECTION 5: Firefighting measures

### · 5.1 Extinguishing media

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

Not flammable or combustible, but burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires.

Prevent fire-fighting wash from entering waterway or sewer system.

· **Hazardous combustion products:**

Carbon Oxides (CO<sub>x</sub>)

oxidized rosin colophony by-products

### · 5.3 Advice for firefighters

· **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

## \* SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Avoid breathing the fumes or vapors.

Remove or keep away all sources of extreme heat or open flames.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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· **6.3 Methods and material for containment and cleaning up:**

Collect waste in a sealable waste container.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

\* **SECTION 7: Handling and storage**

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves and eye protection.

Wash hands and exposed skin thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Contaminated work clothing should not be allowed out of the workplace.

· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Keep in a dry and clean area, away from incompatible substances

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** None.

· **Storage class:** 11

· **7.3 Specific end use(s)** See section 1.2

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

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

7440-50-8 copper	
WEL	Short-term value: 2** mg/m <sup>3</sup> Long-term value: 0.2* 1** mg/m <sup>3</sup> *fume **dusts and mists (as Cu)
8050-09-7 Rosin	
WEL	Short-term value: 0.15 mg/m <sup>3</sup> Long-term value: 0.05 mg/m <sup>3</sup> Sen

· **Additional information:**

The lists valid during the making were used as basis.

Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

· **8.2 Exposure controls**

· **Appropriate engineering controls**

RECOMMENDATION: For frequent or prolonged soldering processes, use of a local exhaust system to avoid exposure to thermal decomposition products. For example, use fume cabinet, a hood on a flexible arm, or tip-mounted fume extraction system on the soldering iron.

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If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

Keep airborne concentrations below exposure limits.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Advice should be sought from respiratory protection specialists.

If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

· **Hand protection**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Wear safety glasses: EN 166

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

- |   |                 |
|---|-----------------|
| · <b>Physical state</b>   | Solid           |
| · <b>Form:</b>  | Solder braid    |
| · <b>Colour:</b>  | Copper coloured |
| · <b>Odour:</b>   | Odourless       |
| · <b>Odour threshold:</b>   | Not determined. |
| · <b>Melting point/freezing point:</b>                            | 1,083 °C        |
| · <b>Boiling point or initial boiling point and boiling range</b> | Undetermined.   |
| · <b>Flammability</b>   | Non flammable   |

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<ul style="list-style-type: none"> <li>· <b>Lower and upper explosion limit</b> <ul style="list-style-type: none"> <li>· Lower: Not applicable</li> <li>· Upper: Not applicable</li> </ul> </li> <li>· <b>Flash point:</b> Not applicable.</li> <li>· <b>Auto-ignition temperature:</b> Not determined</li> <li>· <b>Decomposition temperature:</b> Not determined.</li> <li>· <b>pH</b> Not applicable.</li> <li>· <b>Viscosity:</b> <ul style="list-style-type: none"> <li>· Kinematic viscosity Not applicable.</li> <li>· Dynamic: Not applicable.</li> </ul> </li> <li>· <b>Solubility</b> <ul style="list-style-type: none"> <li>· water: Insoluble. Not miscible or difficult to mix.</li> </ul> </li> <li>· <b>Partition coefficient n-octanol/water (log value)</b> Not determined.</li> <li>· <b>Vapour pressure at 20 °C:</b> 0 hPa</li> <li>· <b>Density at 20 °C:</b> 8.96 g/cm<sup>3</sup></li> <li>· <b>Relative density at 25 °C:</b> 8.8</li> <li>· <b>Vapour density (air=1):</b> Not applicable.</li> <li>· <b>Particle characteristics</b> See section 3.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>9.2 Other information</b> <ul style="list-style-type: none"> <li>· <b>9.2.1 Information with regard to physical hazard classes</b> Not applicable</li> <li>· <b>9.2.2 Other safety characteristics</b> <ul style="list-style-type: none"> <li>· <b>Evaporation rate</b> Not applicable.</li> <li>· <b>Ignition temperature:</b> Product is not selfigniting.</li> <li>· <b>Explosive properties:</b> Product does not present an explosion hazard.</li> <li>· <b>Solvent content:</b> <ul style="list-style-type: none"> <li>· Organic solvents: Not available</li> <li>· Solids content: 95.0 %</li> </ul> </li> <li>· <b>Molecular weight</b> 63.55 g/mol</li> </ul> </li> </ul> </li> </ul>

## SECTION 10: Stability and reactivity

### · 10.1 Reactivity

When rosin flux is exposed to soldering temperatures (350–400 °C) during normal conditions of use, it produces oxidized rosins. These by-products are known skin and respiratory sensitizers.

### · 10.2 Chemical stability

Chemically stable at normal temperatures and pressures.

#### · **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

### · 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### · 10.4 Conditions to avoid

Extreme temperatures above 450 °C [842 °F], such as those due to welding.

### · 10.5 Incompatible materials:

Strong acids  
Oxidizing agents

### · 10.6 Hazardous decomposition products:

Thermal degradation produces oxidized rosin by-products that are known skin and respiratory sensitizers.

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Hazardous combustion products: see section 5.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

#### 7440-50-8 copper

Oral	LD50	>5,000 mg/kg (mouse)
Inhalative	LC50/4 h	>5.11 mg/L (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

- **Respiratory or skin sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

- **Summary of Effects and Symptoms by Routes of Exposure**

- **Eyes:**

redness  
may cause mild irritation

- **Skin:**

rash, allergic contact dermatitis  
redness, may cause mild irritation

- **Inhalation:**

cough  
sore throat  
headache  
wheezing

- **Swallowed:**

Low toxicity:  
abdominal pain  
nausea  
vomiting

- **Subacute to chronic toxicity:**

- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Prolonged or repeated exposure to the oxidized rosin flux may lead to skin sensitization, respiratory sensitization and provoke asthma.

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· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

## SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

## SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation** This material and its container must be disposed of as hazardous waste.

· **European waste catalogue**

HP14	Ecotoxic
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· **Uncleaned packaging:**

· **Recommendation:**

Containers may still present a chemical hazard/ danger when empty.

Dispose of contents in accordance with all local, regional, national, and international regulations.

Where possible retain label warnings and SDS and observe all notices pertaining to the product.

## SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

Not regulated

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· 14.2 UN proper shipping name · ADR, IMDG, IATA	Not regulated
· 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Not regulated
· 14.4 Packing group · ADR, IMDG, IATA	Not applicable
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· UN "Model Regulation":	Not regulated

## SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Poisons Act

· Regulated explosives precursors (Part 1)
None of the ingredients is listed.

· Regulated poisons (Part 2)
None of the ingredients is listed.

· Reportable explosives precursors (Part 3)
None of the ingredients is listed.

· Reportable poisons (Part 4)
None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.

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<ul style="list-style-type: none"> <li>· <b>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</b></li> </ul>
None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H411 Toxic to aquatic life with long lasting effects.

<ul style="list-style-type: none"> <li>· <b>Classification according to Regulation (EC) No 1272/2008</b></li> </ul>			
<table border="1"> <tr> <td>Respiratory sensitisation</td> <td rowspan="2">The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.</td> </tr> <tr> <td>Skin sensitisation</td> </tr> </table>	Respiratory sensitisation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.	Skin sensitisation
Respiratory sensitisation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.		
Skin sensitisation			

- **Department issuing SDS:** Regulatory department

- **Contact:** sds@mgchemicals.com

- **Date of previous version:** 20.09.2023

- **Version number of previous version:** 4.00

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- **\* Data compared to the previous version altered.**