



STANNOL

# SAFETY DATA SHEET

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

### 1.1. Product identifier

Trade name or designation of the mixture Lotpaste SP310 TSC

Issue date 26-April-2013

Version number 1.1

Revision date 01-August-2013

Supersedes date 26-April-2013

Product use professional use

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

Identified uses soft soldering

Uses advised against None known

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

Company name STANNOL GmbH

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42283 Wuppertal  
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification R43

The full text for all R-phrases is displayed in section 16.

#### Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards May cause sensitisation by skin contact.

Environmental hazards Not classified for hazards to the environment.

Specific hazards May cause sensitisation by skin contact.

Main symptoms Not available.

### 2.2. Label elements

#### Label according to Directive 67/548/EEC or 1999/45/EC as amended

Contains: Rosin

EC number -

EC label



Irritant

R-phrases R43 May cause sensitisation by skin contact.

**S-phrases** S23 Do not breathe gas/fumes/vapour/spray.  
S24/25 Avoid contact with skin and eyes.  
S36/37 Wear suitable protective clothing and gloves.  
S60 This material and its container must be disposed of as hazardous waste.

**Authorisation number** Not available.

**Supplemental label information** Not applicable.

**2.3. Other hazards** Not assigned.

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

#### **3.2. Mixtures**

##### **General information**

<b>Chemical name</b>	<b>%</b>	<b>CAS-No. / EC No.</b>	<b>REACH Registration No.</b>	<b>INDEX No.</b>	<b>Notes</b>
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tin	80 - 100	7440-31-5 231-141-8	-	-	#
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**Classification:** **DSD:** -  
**CLP:** -

Complex Reaction Mass Of Chinese Gum Rosin Post Reacted With Acrylic Acid	1 - 5	144413-22-9 434-230-1	-	607-682-00-4	
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**Classification:** **DSD:** R53  
**CLP:** Aquatic Chronic 4;H413

Rosin	1 - 5	8050-09-7 232-475-7	-	650-015-00-7	
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**Classification:** **DSD:** R43  
**CLP:** Skin Sens. 1;H317

Silver (metal, >1mm)	1 - 5	7440-22-4 231-131-3	-	-	#
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**Classification:** **DSD:** -  
**CLP:** -

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

#: This substance has been assigned Community workplace exposure limit(s).

**Composition comments** The full text for all R- and H-phrases is displayed in section 16. The full text for all R-phrases is displayed in Section 16.

### **SECTION 4: First aid measures**

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Take off contaminated clothing and shoes immediately.

#### **4.1. Description of first aid measures**

**Inhalation** Call a physician if symptoms develop or persist.

**Skin contact** Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.

**Eye contact** Flush eyes immediately with large amounts of water. Get medical attention if irritation develops and persists.

**Ingestion** Get medical advice/attention if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed** May cause allergic skin reaction.

**4.3. Indication of any immediate medical attention and special treatment needed** Not available.

## **SECTION 5: Firefighting measures**

<b>General fire hazards</b>	Not available.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Dry chemicals. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet.
<b>Hazardous combustion products</b>	In case of fire, toxic and irritating gases may be formed.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Special fire fighting procedures</b>	Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

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

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Keep out of low areas.
<b>For emergency responders</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.
<b>6.2. Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.
<b>6.3. Methods and material for containment and cleaning up</b>	Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas.  Never return spills in original containers for re-use. For waste disposal, see section 13.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8. For waste disposal, see section 13.

## **SECTION 7: Handling and storage**

<b>7.1. Precautions for safe handling</b>	Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container. Use care in handling/storage. Store in accordance with local/regional/national/international regulation. Storage Temperature: Between 0 °C and 10 °C.
<b>7.3. Specific end use(s)</b>	Not available.

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

### **8.1. Control parameters**

#### **Occupational exposure limits**

##### **UK. EH40 Workplace Exposure Limits (WELs)**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Copper Metal (7440-50-8)	STEL	2 mg/m <sup>3</sup>	Inhalable dusts and mists.
	TWA	1 mg/m <sup>3</sup>	Inhalable dusts and mists.
Rosin (8050-09-7)	STEL	0.2 mg/m <sup>3</sup>	Fume.
	TWA	0.15 mg/m <sup>3</sup>	Fume.
Silver (metal, >1mm) (7440-22-4)	TWA	0.05 mg/m <sup>3</sup>	Fume.
	TWA	0.1 mg/m <sup>3</sup>	

##### **EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Silver (metal, >1mm) (7440-22-4)	TWA	0.1 mg/m <sup>3</sup>
TIN (7440-31-5)	TWA	2 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

### **8.2. Exposure controls**

<b>Appropriate engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear tight-fitting goggles or face shield.
<b>Skin protection</b>	
- <b>Hand protection</b>	Wear appropriate chemical resistant gloves.
- <b>Other</b>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Avoid contact with the skin. Wear chemical protective equipment that is specifically recommended by the manufacturer. Wear protective gloves.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>Thermal hazards</b>	Not available.
<b>Hygiene measures</b>	Wash hands after handling.
<b>Environmental exposure controls</b>	Environmental manager must be informed of all major releases.

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

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

<b>Physical state</b>	Liquid.
<b>Form</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Mild.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	217 °C (422.6 °F)
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	117.00 °C (242.60 °F)
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.

#### **Upper/lower flammability or explosive limits**

<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	insoluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.

### **9.2. Other information**

<b>Density</b>	4.21 g/cm <sup>3</sup> @25°C
<b>VOC (Weight %)</b>	< 10 %

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

<b>10.1. Reactivity</b>	Nitric acid
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.

<b>10.4. Conditions to avoid</b>	None under normal conditions.
<b>10.5. Incompatible materials</b>	Ammonia. Acids. Chlorine.
<b>10.6. Hazardous decomposition products</b>	Nitrogen oxides (NOx).

## **SECTION 11: Toxicological information**

**General information** Not available.

### **Information on likely routes of exposure**

<b>Ingestion</b>	Not available.
<b>Inhalation</b>	Not available.
<b>Skin contact</b>	May cause sensitisation by skin contact.
<b>Eye contact</b>	Not available.

**Symptoms** Not available.

### **11.1. Information on toxicological effects**

<b>Components</b>	<b>Species</b>	<b>Test results</b>
Complex Reaction Mass Of Chinese Gum Rosin Post Reacted With Acrylic Acid (144413-22-9)		
<b>Chronic</b>		
<i>Oral</i>		
NOAEL	Rat	1000 mg/kg, 28 d
Copper Metal (7440-50-8)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, OECD Guideline 402
<i>Oral</i>		
LD50	Rat	> 2500 mg/kg, OECD Guideline 401
Silver (metal, >1mm) (7440-22-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
<b>Skin corrosion/irritation</b>	Not available.	
<b>Serious eye damage/irritation</b>	Not available.	
<b>Respiratory sensitisation</b>	Not available.	
<b>Skin sensitisation</b>	May cause sensitisation by skin contact.	
<b>Germ cell mutagenicity</b>	Not available.	
<b>Carcinogenicity</b>	Not available.	
<b>Reproductive toxicity</b>	Not available.	
<b>Specific target organ toxicity - single exposure</b>	Not available.	
<b>Specific target organ toxicity - repeated exposure</b>	Not available.	
<b>Aspiration hazard</b>	Not available.	
<b>Mixture versus substance information</b>	Not available.	
<b>Other information</b>	Not available.	

## **SECTION 12: Ecological information**

**12.1. Toxicity** Not expected to be harmful to aquatic organisms.

<b>Components</b>	<b>Species</b>	<b>Test results</b>
Complex Reaction Mass Of Chinese Gum Rosin Post Reacted With Acrylic Acid (144413-22-9)		
<i>Acute</i>		
Algae	EC50 Algae	> 0.49 mg/l, 72 h
Crustacea	EC50 Daphnia magna	> 1 mg/l, 24 h
Fish	LC50 Fish	> 1 mg/l, 24 h

Components	Species	Test results
Rosin (8050-09-7)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 911 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) > 1000 mg/l, 96 hours
<b>12.2. Persistence and degradability</b>	The product is insoluble in water. Not readily degradable.	
<b>12.3. Bioaccumulative potential</b>	Not available.	
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.	
<b>Bioconcentration factor (BCF)</b>	Not available.	
<b>12.4. Mobility in soil</b>	Not available.	
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.	
<b>12.6. Other adverse effects</b>	Not available.	

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

<b>Residual waste</b>	Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	16 03 03*
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable regulations.

## **SECTION 14: Transport information**

### **ADR**

Not regulated as dangerous goods.

### **IATA**

Not regulated as dangerous goods.

### **IMDG**

Not regulated as dangerous goods.

## **SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **EU regulations**

##### **Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**

Not listed.

##### **Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**

Not listed.

##### **Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I as amended**

Not listed.

##### **Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**

Not listed.

##### **Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**

Not listed.

##### **Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**

Not listed.

##### **Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

##### **Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**

Not listed.

##### **Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA**

Not listed.

#### **Authorisations**

##### **Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation**

Not listed.

## Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**

Not regulated.

## Other EU regulations

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**

Not regulated.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Rosin (CAS 8050-09-7)

**Directive 94/33/EC on the protection of young people at work**

Rosin (CAS 8050-09-7)

## Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

## National regulations

Young people under 18 years old are not allow to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

### List of abbreviations

Not available.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

Not available.

### Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R43 May cause sensitisation by skin contact.

R53 May cause long-term adverse effects in the aquatic environment.

H317 - May cause an allergic skin reaction.

H413 - May cause long lasting harmful effects to aquatic life.

### Training information

Not available.

### Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.