

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006  
Version 5.0: Revision date: 15/09/2020

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

#### 1.1 Product identifiers

Product name: TSC Lead-Free Pure Tin Solder Paint

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

Identified use: Soldering metal joints. Industrial uses [SU3];  
Professional uses [SU22].

Uses advised against: Any other than the identified use.

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

Company: The Solder Connection  
Unit 5 Severn Link Distribution Centre  
Chepstow  
Monmouthshire  
NP16 6UN

Telephone: +44 (0) 1291 624400

E-mail address: [sales@solderconnection.co.uk](mailto:sales@solderconnection.co.uk)

Website: [www.solderconnection.co.uk](http://www.solderconnection.co.uk)

#### 1.4 Emergency phone number:

+44 (0) 1291624400 09:00 – 17:00 Hrs. Monday - Friday

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to regulation (EC) No 1272/2008

Skin Corr. 1B: H314

Aquatic Acute 1: H400

Aquatic Chronic 1: H410

Acute Tox. 4: H302

STOT SE 3; H335: C ≥ 5 %

#### 2.2 Label elements

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

Hazard pictograms



Signal word            Danger

Hazard statement(s):

H302                    Harmful if swallowed  
H314                    Causes severe skin burns and eye damage  
H335                    May cause respiratory irritation  
H400                    Very toxic to aquatic life  
H410                    Very toxic to aquatic life with long lasting effects

Precautionary statements:

P260                    Do not breathe dust/fume/gas/mist/vapours/spray  
P264                    Wash hands thoroughly after handling  
P270                    Do not eat, drink or smoke when using this product  
P273                    Avoid release to the environment

P301 + P312 + P330 + P331 – IF SWALLOWED: Call a POISON CENTRE or doctor/physician. Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P391 – Collect spillage. Hazardous to the aquatic environment.

P405 – Store locked up.

P501 – Dispose of contents/container to all local/regional/national/international regulations.

Supplemental Hazard Information                    N/A

**2.3 Other hazards**                    None known

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## SECTION 3: Composition/Information on ingredients

### 3.2 Mixtures

Component	Classification according to Regulation (EC) No 1278/2008 (CLP)	Conc (%w/w)
<b>Tin</b>		
CAS No 7440-31-5 EC No 231-141-8 Index No REACH Registration No. 01-2119486474-28-xxxx		60-80

**Zinc chloride (Zinc chloride, fume)**

CAS No 7646-85-7 EC No 231-592-0 Index No 030-003-00-2 REACH Registration No. 01-2119472431-44-xxx	Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Acute Tox. 4: H302; STOT SE 3: H335; C ≥ 5 %	10-15
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**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor/physician in attendance.

**Following inhalation**

Inhalation of vapour may cause shortness of breath. Seek medical attention.

**Following skin contact**

Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

**Following eye contact**

Causes burns. Causes severe inflammation and may damage the cornea. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.

**Following ingestion**

Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. Toxic if swallowed. If swallowed seek medical advice immediately and show this container or label.

**4.2 Most important symptoms and effects, both acute and delayed**

Causes severe inflammation and may damage the cornea. Inhalation may cause shortness of breath. May cause nausea and vomiting.

**4.3 Indication of any immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically. If swallowed seek medical attention immediately and show this container or label.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Use as appropriate: Carbon dioxide (CO<sub>2</sub>), Dry chemical. Foam.

**Unsuitable extinguishing media**

N/A

**5.2 Special hazards arising from the substance or mixture**

Corrosive. Burning produce irritating, toxic and obnoxious fumes.

**5.3 Advice for firefighters**

Wear suitable respiratory equipment when necessary.

**5.4 Further information**

N/A

**SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protection equipment and emergency procedures**  
Ensure adequate ventilation of the working area. Wear suitable protective equipment. Evacuate personnel to a safe area. Advice for emergency responders: For personal protection see Section 8.
- 6.2 Environmental precautions**  
Do not allow product to enter drains. Prevent further spillage if safe.
- 6.3 Methods and material for containment and cleaning up**  
Stop leak if without risk. Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
- 6.4 Reference to other sections**  
For disposal see Section 13.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**  
Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Store in original container.
- 7.3 Specific end use**  
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Component	CAS No.	Workplace Exposure Limit				Basis
		Long-term exposure limit (8-hr TWA)		Short-term exposure limit (15 minute)		
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Tin	7440-31-5	-	2	-	4	UK. EH40 WEL – Workplace Exposure Limit
Zinc chloride (Zinc chloride, fume)	7646-85-7	-	1	-	2	UK. EH40 WEL – Workplace Exposure Limit

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls:

Ensure adequate ventilation of the working area. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure the eyewash stations and safety showers are close to the workstation location.

#### 8.2.2 Personal protective equipment

Wear chemical protective clothing.

### 8.2.2.1 Eye and face protection:

Approved safety goggles.

### 8.2.2.2 Skin protection:

Chemical resistant gloves (PVC)

Other skin protection:

Wear appropriate chemical resistant clothing.

Use as appropriate: Personal protective equipment for the body should be selected based on the task being performed and the risk involved and should be approved by a specialist before handling this product.

### 8.2.2.3 Respiratory protection:

Self-contained breathing apparatus.

### 8.2.2.4 Thermal hazards:

Wear appropriate thermal protective clothing, when necessary.

### 8.2.3 Environmental exposure controls:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Solid
Colour	Grey
Odour	No data available
pH	No data available
Melting point	232°C
Freezing point	No data available
Boiling point	No data available
Evaporation rate	No data available
Flammability rate	No data available
Vapour flammability	No data available
Upper Explosive Limit	No data available
Lower Explosive Limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Fat solubility	No data available
Partition coefficient	No data available
Auto ignition temperature	No data available
Oxidising	No data available
Solubility	Soluble in water

### 9.2 Other safety information

Conductivity	No data available
Surface tension	No data available

Gas group	No data available
Benzene content	No data available
Lead content	No data available
VOC (Volatile Organic Compounds)	No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

Stable under normal storage and transport conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

In the event of fire: See Section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Causes burns.

#### 11.1.3 Hazard information

No data is available on this product.

#### 11.1.4 Toxicological information

Zinc Chloride      **Oral Rat LD50:** 30 mg/kg      **Oral Mouse LD50:** 329 mg/kg

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

No data is available on this product.

## SECTION 12: Ecological information

### 12.1 Toxicity

Zinc Chloride

Daphnia EC50/48h: 2.800 mg/l      Daphnia LC50/96h: 0.06791 mg/l

Rainbow trout LC50/96h: 0.066 mg/l

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of Spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

## SECTION 14: Transport information

Hazard Pictograms



14.1	UN number	UN 1760
14.2	UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S.
14.3	Transport hazard class	
	ADR/RID	8
	Subsidiary risk	-
	IMDG	8
	Subsidiary risk	-
	IATA	8
	Subsidiary risk	-
14.4	Packing group	III
14.5	Environmental hazards	
	Environmental hazards	Yes
	Marine pollutant	Yes
	ADR/RID	
	Hazard ID	80
	Tunnel Category	(E)
	IMDG	
	EmS Code	F-A-S-B
	IATA	
	Packing Instruction (cargo)	856
	Maximum quantity	60 L
	Packing instruction (passenger)	852
	Maximum quantity	5 L

14.6 Special precautions for user No data available

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## SECTION 15: Regulatory information

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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

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## SECTION 16: Other information

Full text of H-Statements referred to under Sections 2 and 3

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

The information in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.