



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
Version 3.0: Revision date: 20/08/2018

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

1.1 Product identifiers

Product name: Fryolux Tinning Compound

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

Website: www.solderconnection.co.uk

1.4 Emergency phone number:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008

Acute Tox. 4: H302;

Skin Corr. 1B: H314;

Aquatic Chronic 1: H410;

STOT SE 3; H335: C ≥ 5 %

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



SOLDER CONNECTION

Email: sales@solderconnection.co.uk | Tel: +44(0)1291 624 400



Signal word Danger

Hazard statement(s):

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

Precautionary statements:

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in well-ventilated areas
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection

P301 + P330 + P312 + P331 – IF SWALLOWED: Rinse mouth. Call a POISON CENTRE/doctor if you feel unwell. Do NOT induce vomiting.

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

P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTRE or doctor/physician.

P321 – Specific treatment (see on this label).

P330 – Rinse mouth.

P363 – Wash contaminated clothing before reuse.

P391 – Collect spillage. Hazardous to the aquatic environment.

P403 + P233 – Store in a well-ventilated place. Keep container tightly closed.

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

SECTION 3: Composition/Information on ingredients

3.2 Mixtures

Component	Classification according to Regulation (EC) No 1278/2008 (CLP)	Conc (%w/w)
Tin		
CAS No 7440-31-5 EC No 231-141-8 Index No REACH Registration No. N/A		40-50
Zinc chloride (Zinc chloride, fume)		
CAS No 7647-85-7 EC No 231-592-0 Index No 030-003-00-2 REACH Registration No. N/A	Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;	30-40
Ammonium chloride (Ammonium chloride, fume)		
CAS No 12125-02-9 EC No 235-186-4 Index No 017-014-00-8 REACH Registration No. N/A	Acute Tox. 4: H302; Eye Irrit. 2: H319;	10-20

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

If breathed in, move person into fresh air. Seek medical attention if irritation symptoms persist.

Following skin contact

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

Following eye contact

Seek medical attention. Rinse immediately with plenty of water for 15 minutes.

Following ingestion



DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Rinse mouth with water (only if the person is conscious). 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. Ingestion 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 (CO₂), Dry chemical. Foam.

Unsuitable extinguishing media

N/A

5.2 Special hazards arising from the substance or mixture

Corrosive. Burning produces irritating, toxic and obnoxious fumes.

5.3 Advice for firefighters

Wear self-contained breathing apparatus.

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

Avoid generation of dust. Clean the area using a vacuum cleaner. Transfer to suitable, labelled containers for disposal.

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 out of the reach of children. 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 ³	ppm	mg/m ³	
Ammonium chloride (Ammonium chloride, fume)	12125-02-9	-	10	-	20	UK. EH40 WEL – Workplace Exposure Limit
Tin	7440-31-5	-	0.1	-	0.2	UK. EH40 WEL – Workplace Exposure Limit
Zinc chloride (Zinc chloride, fume)	7647-85-7	-	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 required.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Powder
Colour	Grey
Odour	Ammoniacal
pH	No data available
Melting point	No data available
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. Hygroscopic.

10.3 Possibility of hazardous reactions

N/A

10.4 Conditions to avoid

N/A

10.5 Incompatible materials

N/A

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

Toxic by inhalation and if swallowed.

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

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 2331
14.2	UN proper shipping name	ZINC CHLORIDE, ANHYDROUS
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)	864
	Maximum quantity	100 Kg
	Packing instruction (passenger)	860
	Maximum quantity	25 Kg
14.6	Special precautions for user	No data available



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.

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
H319	Causes serious eye irritation
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.