

SAFETY DATA SHEET



Cookson Electronics ASSEMBLY MATERIALS

SACX0307 Fluitin 1532/133

1. Identification of the substance/preparation and of the company/undertaking

Product name : SACX0307 Fluitin 1532/133**Code** : 53746, 55294 & 55766

Head Office : **Cookson Electronics** **Manufacturer** : Cookson Electronics Assembly
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Supplied by:
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 Tel: (01536) 402888

Material uses : Soldering metals.

2. Composition/information on ingredients

Substance/preparation : Preparation

Chemical name*	CAS no.	%	EC Number	Classification
Europe				
tin	7440-31-5	80 - 100	231-141-8	Not classified.
Colophony	8050-09-7	1 - 5	232-475-7	R43
See section 16 for the full text of the R Phrases declared above				

* Occupational Exposure Limit(s), if available, are listed in Section 8

* The classifications listed, indicate the potential hazards of the ingredients

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.**Skin contact** : Slightly hazardous in case of skin contact (irritant).

Toxicity data : **Colophony**: CAUTION: Certain sensitive individuals may develop eczema and/or occupational asthma on exposure to this material.
 Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.

4. First aid measures

First-Aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.
- Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention.

5. Fire-fighting measures

Extinguishing media	: Recommended: alcohol resistant foam, CO ₂ , powders, water spray. Not to be used : waterjet.
Hazardous thermal decomposition products	: Some metallic oxides.
Special fire-fighting procedures	: Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.
Protection of fire-fighters	: Be sure to use an approved/certified respirator or equivalent.
Recommendations	: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

6. Accidental release measures

Personal Precautions	: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Environmental precautions and clean-up methods	: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling	: Do not breathe dust. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible.
Hygiene measures	: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
Storage	: Do not reuse container.
Packaging materials	
Recommended	: Use original container.

8. Exposure controls/personal protection

Engineering measures	: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Hygiene measures	: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient name

Occupational exposure limits

Europe

tin

ACGIH TLV (United States, 9/2004).

TWA: 2 mg/m³ 8 hour(s). Form: All forms

Sweden

Denmark

Norway

France

Colophony

INRS (France, 12/1999).

VME: 0.1 mg/m³ 8 hour(s). Form: All forms

Netherlands

tin

Nationale MAC-lijst (Netherlands, 1/2004). Notes:

TGG: 2 mg/m³ 8 hour(s). Form: All forms

Germany

tin

TRGS900 MAK (Germany, 9/2003).TWA: 2 mg/m³ 8 hour(s). Form: Inhalable fraction**Finland**

tin

Työterveyslaitos (Finland, 2002).TWA: 2 mg/m³ 8 hour(s).TWA: 2 mg/m³ 8 hour(s). Form: All forms**United Kingdom (UK)**

tin

EH40-OES (United Kingdom (UK), 2002).TWA: 2 mg/m³ 8 hour(s).STEL: 4 mg/m³ 15 minute(s).

Colophony

EH40-MEL (United Kingdom (UK), 2002). Sensitiser skin, Sensitiser inhalationTWA: 0.05 mg/m³ 8 hour(s). Form: Rosin-based solder flux fumeSTEL: 0.15 mg/m³ 15 minute(s). Form: Rosin-based solder flux fume**Where a MEL has been assigned, exposure should be reduced as low as is reasonably practicable and should not exceed the MEL.****Austria**

tin

BMWA_MAK (Austria, 12/2003).STEL: 4 mg/m³ 4 times per shift, 15 minute(s). Form: Inhalable fractionTWA: 2 mg/m³ 8 hour(s). Form: Inhalable fraction**Switzerland****Belgium**

tin

Lijst Grenswaarden / Valeurs Limites (Belgium, 10/2003). SkinTWA: 2 mg/m³ 8 hour(s). Form: All forms**Spain**

tin

INSHT (Spain, 10/2004).VLA-ED: 2 mg/m³ 8 hour(s). Form: All forms**Turkey**

tin

NIOSH REL (United States, 6/2001). Notes: Note: The REL and PEL also apply to other inorganic tin compounds (as Sn) except tin oxides.TWA: 2 mg/m³ 10 hour(s). Form: All forms**NIOSH REL (United States, 6/2001). Notes: Note: Carcinogenic in the presence of formaldehyde, acetaldehyde, or malonaldehyde. See Appendix C (Aldehydes) See Appendix A - NIOSH Potential Occupational Carcinogen**TWA: 0.1 mg/m³ 10 hour(s). Form: All forms

Colophony

Poland

tin

Ministra Pracy i Polityki Społecznej (Poland, 11/2002).TWA: 2 mg/m³ 8 hour(s). Form: Dust and Smoke**Slovenia**

tin

Uradni list Republike Slovenije (Slovenia, 1/2000).TWA: 2 mg/m³ 8 hour(s). Form: Inhalable fraction**Personal protective equipment****Respiratory protection**

: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Recommended: particulate filter EN 149:2001 FFP3

Hand protection

: Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Recommended: safety glasses with side shields EN 166 1F

- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Body: Recommended:overall
- Additional Information** : When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of molten product.

9. Physical and chemical properties

General information

Appearance

- Physical state** : Solid.
Colour : Silvery.

Important health, safety and environmental information

- Melting point** 231.8°C (449.2°F) based on data for: tin.
Relative density : The only known value is 7.31 (tin).
Solubility : Insoluble in cold water, hot water.

10. Stability and reactivity

- Stability** : The product is stable.
Hazardous decomposition products : Some metallic oxides.

11. Toxicological information

Local effects

- Skin irritation** : Slightly hazardous in case of skin contact (irritant).
Toxicity data : **Colophony**: CAUTION: Certain sensitive individuals may develop eczema and/or occupational asthma on exposure to this material.
Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.

Over-exposure signs/symptoms

- Target organs** : Contains material which causes damage to the following organs: upper respiratory tract, skin, eye, lens or cornea.

12. Ecological information

- Other adverse effects** : No known significant effects or critical hazards.

13. Disposal considerations

- Methods of disposal ; Waste of residues ; Contaminated packaging** : 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, solutions 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.

- Waste classification** : Not applicable.
European waste catalogue (EWC) : 10 08 11
Hazardous waste : Yes.

14. Transport information

International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

15. Regulatory information

EU Regulations

- Risk Phrases** : This product is not classified according to the EU regulations.
- Product use** : Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Industrial applications.
- Additional warning phrases** : Contains (Colophony). May produce an allergic reaction. Safety data sheet available for professional user on request.
- EC Statistical classification (Tariff Code)** : 32089091

National regulations

Denmark

- Additional warning phrases** : Contains (Colophony). May produce an allergic reaction. Safety data sheet available for professional user on request.
- Denmark – Cancer risks** : Not available.
- Denmark – Restrictions on use** : Not available.
- Statutory order 517 on aerosols** : Not applicable.

Netherlands

- K-Klasse** : K5
- CPR** : Not regulated.
- SHHR** : 0ZZ

Germany

- Employment restrictions in accordance with § 15b of the Hazardous Substance Ordinance** : No.
- Other Regulations** : TRGS 900
- Hazardous incident ordinance** : No.
- Ordinance on combustible liquids** : Class: Omitted
- Technical instruction on air quality control** : Class III: 0.7%
- Hazard class for water** : nwg

16. Other information

Full text of R phrases referred to in sections 2 and 3 - Europe : R43- May cause sensitisation by skin contact.

Full text of classifications referred to in sections 2 and 3 - Europe : Not applicable.

History

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Version : 1

Prepared by : Simon Hosken
Environmental, Health and Safety Manager

References

The Health and Safety At Work Act 1974, section 6.

Control of Substances Hazardous to Health (CoSHH) Regulations 2002 and its amendments.

Preparation contains solely TSCA and EINECS listed substances.

This safety data sheet has been prepared in accordance with the requirements of the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 which implement EC Directives 1999/45/EC and 2001/58/EC and their amendments.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.