SAFETY DATA SHEET



Sn60 Pb40 Fluitin 1535/314 1mm 0.5kg 10kg

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

Product name : Sn60 Pb40 Fluitin 1535/314 1mm

0.5kg 10kg

Code : 50491

Head Office : Cookson Electronics

Forsyth Road Sheerwater Woking Surrey GU21 5RZ

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Energiestraat 21 1411 AR Naarden The Netherlands Tel: +31 (35) 695 5411

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2. Composition/information on ingredients

Substance/Preparation : Preparation

Chemical name*	CAS no.	%	EC Number	Classification
Europe				
tin	7440-31-5	40-60	231-141-8	
lead	7439-92-1	30-40	231-100-4	Repr. Cat. 1; R61 Repr. Cat. 3; R62 Xn; R20/22 R33 N; R50/53
Colophony	8050-09-7	1-5	232-475-7	R43
See Section 16 for the full text of the R Phrases declared above				

Manufacturer

Hazards identification

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

Skin contact

: Irritation of the product in case of skin contact: Not available. Sensitization of the product: Not available.

Aggravating conditions

Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

First-aid measures

First-Aid measures

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

Suitable

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Hazardous thermal (de)composition

products

: Some metallic oxides.

Special fire-fighting procedures

: Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Date of issue : 08/10/2003. Page: 1/5

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

Protection of fire-fighters

: Be sure to use an approved/certified respirator or equivalent.

6. Accidental release measures

Personal Precautions

: Splash goggles. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Environmental precautions and cleanup 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 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling

: Keep locked up. Do not breathe dust. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible.

Storage

: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

Recommended use : Use original container.

Danish Fire Class : Not applicable.

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.

<u>Ingredient Name</u> <u>Occupational Exposure Limits</u>

Europe

tin ACGIH TLV (United States, 2001). Skin

STEL: 0.2 mg/m³ 15 minute(s). TWA: 0.1 mg/m³ 8 hour(s).

lead EU OEL (Europe, 1998). Notes: Binding

TWA: 0.15 mg/m³ 8 hour(s).

Sweden

lead AFS (Sweden, 2000).

NGV: 0.05 mg/m³ 8 hour(s). Form: Dust

Denmark

lead Arbejdstilsynet (Denmark, 2000).

GV: 0.05 mg/m³ 8 hour(s).

Norway

lead Arbeidstilsynet (Norway, 2001).

AN: 0.05 mg/m³ 8 hour(s). Form: Dust and fumes

France

lead INRS (France, 1999). Notes: Legal

VME: 0.15 mg/m³ 8 hour(s).

Colophony INRS (France, 1999). Notes: Not Legal

VME: 0.1 mg/m³ 8 hour(s).

Netherlands

tin Nationale MAC-lijst (Netherlands, 2001). Notes: Tentative

TGG 8 uur: 2 mg/m³ 8 hour(s).

Nationale MAC-lijst (Netherlands, 2001). Notes: Legal TGG 8 uur: 0.15 mg/m³ 8 hour(s). Form: Dust and fumes

Germany

lead

lead

tin MAK-Werte Liste (Germany, 2000). Skin

Spitzenbegrenzung: 0.2 mg/m³ 4 times per shift, 30 minute(s). Form: Inhalable fraction

TWA: 0.1 mg/m³ 8 hour(s). Form: Inhalable fraction

TRGS900 MAK (Germany, 2001).

TWA: 2 mg/m³ 8 hour(s).

MAK-Werte Liste (Germany, 2000).

Spitzenbegrenzung: 1 mg/m³ 1 times per shift, 30 minute(s). Form: Inhalable fraction

TWA: 0.1 mg/m³ 8 hour(s). Form: Inhalable fraction

TRGS900 MAK (Germany, 2001).
Spitzenbegrenzung: 0.4 mg/m³

Spitzenbegrenzung: 0.4 mg/m³ TWA: 0.1 mg/m³ 8 hour(s).

Finland

tin **Työterveyslaitos (Finland, 2001).**

TWA: 2 mg/m³ 8 hour(s).

lead EU OEL (Europe, 1998). Notes: Binding

TWA: 0.15 mg/m³ 8 hour(s).

Date of issue : 08/10/2003. Page: 2/5

United Kingdom (UK)

tin EH40-OES (United Kingdom (UK), 2002).

TWA: 2 mg/m³ 8 hour(s). STEL: 4 mg/m³ 15 minute(s).

lead EH40-OES (United Kingdom (UK), 2002).

TWA: 0.15 mg/m³ 8 hour(s).

Colophony EH40-MEL (United Kingdom (UK), 2002). Sensitiser skin, Sensitiser inhalation

TWA: 0.05 mg/m³ 8 hour(s). Form: Rosin-based solder flux fume STEL: 0.15 mg/m³ 15 minute(s). Form: Rosin-based solder flux fume

Austria

lead

tin BMWA_MAK (Austria, 2001).

STEL: 4 mg/m³ 4 times per shift, 15 minute(s).

TWA: 2 mg/m³ 8 hour(s).

BMWA_MAK (Austria, 2001).

STEL: 0.4 mg/m³ 4 times per shift, 15 minute(s).

TWA: 0.1 mg/m³ 8 hour(s).

Switzerland

lead SUVA (Switzerland, 2001). Notes: Not Temporary

MAK: 0.1 mg/m³ 8 hour(s). Form: Dust

Belgium

tin Lijst Grenswaarden (Belgium, 1998). Skin

VL: 2 mg/m³ 8 hour(s).

lead Lijst Grenswaarden (Belgium, 1998).

VL: 0.15 mg/m³ 8 hour(s). Form: Dust and fumes

Spain

Personal protective equipment

Respiratory system : Wear appropriate respirator when ventilation is inadequate.

Skin and body : Lab coat.

Eyes : Safety glasses.

9. Physical and chemical properties

Physical state: Solid.Colour: Silvery.Odour: Not available.pH: Not applicable.

Melting point : 183 to 188°C (361.4 to 370.4°F)

Flash point : Not available.

Explosive properties : Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Oxidizing properties : Not available.

Density : 8 g/cm³ (20°C / 68°F)

Solubility : Insoluble in cold water, hot water.

Stability and reactivity

Stability : The product is stable.

Hazardous decomposition products : Some metallic oxides.

Colophony: Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric

concentrations well below the OEL.

11. Toxicological information

Acute toxicity

Ingredient NameTestResultRouteSpeciesleadLDLo160 mg/kgOralpigeon

Local effects

Chronic toxicity : Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or

many human organs.

Date of issue : 08/10/2003. Page: 3/5

12. Ecological information

Ecotoxicity Data

Ingredient Name Period Result **Species** lead Oncorhynchus mykiss (LC50) 96 hours 1.17 mg/l

Disposal considerations **13.**

Methods of disposal ; Waste of residues; Contaminated packaging : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

European Waste Catalogue (EWC)

: Not available.

Hazardous Waste

To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive

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.	-	-			-

Regulatory information **15.**

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

EC Statistical Classification

(Tariff Code)

Safety data sheet available for professional user on request.

32089091

National regulations

Denmark

Netherlands

K-Klasse : K5

CPR : Not regulated.

SHHR : 0ZZ

Germany

Employment restrictions in accordance with § 15b of the

Hazardous Substance

Hazardous Incident Ordinance

Ordinance on Combustible

Liquids

: Class: Omitted

Technical instruction on air

quality control

: Class III 3.1.4: 40%

: No.

Hazard class for water

: 1

Date of issue : 08/10/2003. Page: 4/5

16. Other information

Full text of R-Phrases with no. appearing in Section 2 - Europe

R61- May cause harm to the unborn child.

R62- Possible risk of impaired fertility.

R20/22- Harmful by inhalation and if swallowed.

R33- Danger of cumulative effects.

R43- May cause sensitization by skin contact.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Text of classifications appearing in

Section 2 - Europe

: Repr. Cat.1 - Toxic for reproduction Category 1 Repr. Cat.3 - Toxic for reproduction Category 3

Xn - Harmful

N - Dangerous for the environment.

HISTORY

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Version :

Prepared by : Simon Hosken

Environmental, Health and Safety Manager

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.

Version 1	Page: 5/5
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