

SAFETY DATA SHEET



Cookson Electronics ASSEMBLY MATERIALS

Sn60Pb38Cu2 Fluitin 1532/122 0.5mm 0.5kg 10kg

1. Identification of the preparation and of the company

Product name : Sn60Pb38Cu2 Fluitin
1532/122 0.5mm 0.5kg 10kg

Code : 10177

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Contact person : shosken@cooksonelectronics.com

Material uses : soldering

2 Hazards identification

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

Classification : Not classified.

Effects and symptoms

Inhalation : May be harmful by inhalation after often repeated exposure.

Ingestion : May be harmful if swallowed.

Skin contact : Slightly hazardous by the following route of exposure: of skin contact (irritant).

Toxicity data : **lead**: Warning. Contains lead.
Over-exposure signs/symptoms:- blood formation impairment, central nervous system depression
May cause harm to the unborn child.
Repeated or prolonged exposure to the substance can produce reproductive system damage.

rosin: 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.

Additional warning phrases : Contains rosin. May produce an allergic reaction. Safety data sheet available for professional user on request.

See section 11 for more detailed information on health effects and symptoms.

3 Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification
Europe				
tin	7440-31-5	40 - 60	231-141-8	Not classified.
lead	7439-92-1	30 - 40	231-100-4	Not classified.
rosin	8050-09-7	1 - 5	232-475-7	R43
copper	7440-50-8	1 - 5	231-159-6	Not classified.

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3 Composition/information on ingredients

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

4. First-aid measures

First-aid measures

- | | | |
|-----------------------------------|---|---|
| Inhalation | : | Obtain medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. |
| Ingestion | : | Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Obtain medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. |
| Skin contact | : | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Obtain medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Eye contact | : | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. |
| Protection of first-aiders | : | No action shall be taken involving any personal risk or without suitable training. |
| Notes to physician | : | No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- | | | |
|---|---|--|
| Suitable | : | Use an extinguishing agent suitable for the surrounding fire. |
| Not suitable | : | None known. |
| Special exposure hazards | : | No specific fire or explosion hazard.
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Hazardous combustion products | : | Decomposition products may include the following materials:
metal oxide/oxides |
| Special protective equipment for fire-fighters | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

6. Accidental release measures

- | | | |
|----------------------------------|---|---|
| Personal precautions | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8). |
| Environmental precautions | : | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Large spill | : | Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. |
| Small spill | : | Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. |

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7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Do not reuse container.
- Storage** : Store in accordance with local regulations. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- Packaging materials**
- Recommended** : Use original container.

8. Exposure controls/personal protection

Exposure limit values

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Europe	
tin	ACGIH TLV (United States, 1/2006). TWA: 2 mg/m ³ 8 hour(s).
lead	EU OEL (Europe, 5/2006). Notes: Binding 8 hours: 0.15 mg/m ³ 8 hour(s).
copper	ACGIH TLV (United States, 1/2006). Notes: as Cu TWA: 1 mg/m ³ , (as Cu) 8 hour(s). ACGIH TLV (United States, 1/2006). TWA: 0.2 mg/m ³ 8 hour(s). Form: Fume
Sweden	
lead	AFS (Sweden, 6/2005). TWA: 0.05 mg/m ³ 8 hour(s). Form: respirable dust TWA: 0.1 mg/m ³ 8 hour(s). Form: total dust
copper	AFS (Sweden, 2000). NGV: 0.2 mg/m ³ 8 hour(s). Form: Fume TWA: 0.2 mg/m ³ 8 hour(s). Form: respirable dust TWA: 1 mg/m ³ 8 hour(s). Form: total dust
Denmark	
lead	Arbejdstilsynet (Denmark, 4/2005). Notes: Calculated as Pb TWA: 0.05 mg/m ³ , (Calculated as Pb) 8 hour(s). Form: Powder, dust and fumes
copper	Arbejdstilsynet (Denmark, 4/2005). Notes: Calculated as Cu TWA: 0.1 mg/m ³ , (Calculated as Cu) 8 hour(s). Form: Fume Arbejdstilsynet (Denmark, 4/2005). TWA: 1 mg/m ³ 8 hour(s). Form: Powder and dust
Norway	
lead	Arbejdstilsynet (Norway, 10/2003). Notes: Calculated as Pb TWA: 0.05 mg/m ³ , (Calculated as Pb) 8 hour(s). Form: Dust and fumes
copper	Arbejdstilsynet (Norway, 10/2003). TWA: 1 mg/m ³ 8 hour(s). Form: Dust TWA: 0.1 mg/m ³ 8 hour(s). Form: Fume
France	
lead	INRS (France, 6/2006). Notes: Regulatory binding exposure limits TWA: 0.1 mg/m ³ 8 hour(s).
rosin	INRS (France, 6/2006). Notes: indicative exposure limits TWA: 0.1 mg/m ³ 8 hour(s).
copper	INRS (France, 6/2006). Notes: As Cu indicative exposure limits STEL: 2 mg/m ³ , (As Cu) 15 minute(s). Form: Dust TWA: 1 mg/m ³ , (As Cu) 8 hour(s). Form: Dust INRS (France, 6/2006). Notes: indicative exposure limits TWA: 0.2 mg/m ³ 8 hour(s). Form: Fume
Netherlands	

8. Exposure controls/personal protection

lead	Nationale MAC-lijst (Netherlands, 7/2006). Notes: Legal indicates a statutory value, Administrative indicates an administrative value that is not legally binding (see background). OEL, 8-h TWA: 0.15 mg/m ³ 8 hour(s). Form: respirable dust and fume
copper	Nationale MAC-lijst (Netherlands, 7/2006). Notes: Administrative OEL, 8-h TWA: 0.1 mg/m ³ 8 hour(s). Form: Inhalable fraction
Germany	
lead	EU OEL (Europe, 5/2006). Notes: Binding 8 hours: 0.15 mg/m ³ 8 hour(s).
copper	MAK-Werte Liste (Germany, 7/2006). PEAK: 0.2 mg/m ³ , 4 times per shift, 15 minute(s). Form: Aerosol / measured as the inhalable fraction TWA: 0.1 mg/m ³ 8 hour(s). Form: Aerosol / measured as the inhalable fraction
Finland	
tin	Työterveyslaitos (Finland, 2002). TWA: 2 mg/m ³ 8 hour(s). Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 4/2005). Notes: Calculated as Sn TWA: 2 mg/m ³ , (Calculated as Sn) 8 hour(s).
lead	EU OEL (Europe, 5/2006). Notes: Binding 8 hours: 0.15 mg/m ³ 8 hour(s).
copper	Työterveyslaitos (Finland, 2002). TWA: 1 mg/m ³ 8 hour(s). Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 4/2005). Notes: Calculated as Cu STEL: 0.1 ppm, (Calculated as Cu) 15 minute(s). Form: dust, respirable fraction STEL: 0.1 ppm, (Calculated as Cu) 15 minute(s). Form: vapor, respirable fraction
United Kingdom (UK)	
tin	EH40-OES (United Kingdom (UK), 2002). TWA: 2 mg/m ³ 8 hour(s). STEL: 4 mg/m ³ 15 minute(s).
lead	EH40-OES (United Kingdom (UK), 2002). TWA: 0.15 mg/m ³ 8 hour(s).
rosin	EH40-WEL (United Kingdom (UK), 9/2006). WEL 8 hrs limit: 0.15 mg/m ³ 8 hour(s).
	EH40-MEL (United Kingdom (UK), 2002). Skin sensitiser, Inhalation sensitiser TWA: 0.05 mg/m ³ 8 hour(s). Form: Rosin-based solder flux fume STEL: 0.15 mg/m ³ 15 minute(s). Form: Rosin-based solder flux fume
copper	EH40-WEL (United Kingdom (UK), 9/2006). Notes: As Cu WEL 15 min limit: 2 mg/m ³ , (As Cu) 15 minute(s). Form: Dusts and Mists WEL 8 hrs limit: 1 mg/m ³ , (As Cu) 8 hour(s). Form: Dusts and Mists WEL 8 hrs limit: 0.2 mg/m ³ , (As Cu) 8 hour(s). Form: Fume
Austria	
tin	GKV_MAK (Austria, 6/2006). STEL: 4 mg/m ³ , 4 times per shift, 15 minute(s). Form: Inhalable fraction TWA: 2 mg/m ³ 8 hour(s). Form: Inhalable fraction
lead	GKV_MAK (Austria, 6/2006). STEL: 0.4 mg/m ³ , 4 times per shift, 15 minute(s). Form: Inhalable fraction TWA: 0.1 mg/m ³ 8 hour(s). Form: Inhalable fraction
copper	GKV_MAK (Austria, 6/2006). STEL: 4 mg/m ³ , 4 times per shift, 15 minute(s). Form: Inhalable fraction

8. Exposure controls/personal protection

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

TWA: 1 mg/m³ 8 hour(s). Form: Inhalable fraction

TWA: 0.1 mg/m³ 8 hour(s). Form: respirable fume

Switzerland

lead

EU OEL (Europe, 5/2006). Notes: Binding

8 hours: 0.15 mg/m³ 8 hour(s).

copper

SUVA (Switzerland, 2/2005). Notes: not temporary

STEL: 0.2 mg/m³ 15 minute(s). Form: inhalable dust

TWA: 0.1 mg/m³ 8 hour(s). Form: inhalable dust

Belgium

tin

Lijst Grenswaarden / Valeurs Limites (Belgium, 3/2006). Skin

TWA: 2 mg/m³ 8 hour(s).

lead

Lijst Grenswaarden / Valeurs Limites (Belgium, 3/2006). Notes: As Pb

TWA: 0.15 mg/m³, (As Pb) 8 hour(s). Form: dust and fumes

copper

Lijst Grenswaarden / Valeurs Limites (Belgium, 3/2006). Notes: As Cu

TWA: 1 mg/m³, (As Cu) 8 hour(s). Form: dusts and mists

TWA: 0.2 mg/m³, (As Cu) 8 hour(s). Form: fume

Spain

tin

INSHT (Spain, 1/2006).

TWA: 2 mg/m³ 8 hour(s).

lead

INSHT (Spain, 1/2006).

TWA: 0.15 mg/m³ 8 hour(s).

copper

INSHT (Spain, 1/2006). Notes: As Cu

TWA: 1 mg/m³, (As Cu) 8 hour(s). Form: Dusts and mists

INSHT (Spain, 1/2006).

TWA: 0.2 mg/m³ 8 hour(s). Form: Fume

Turkey

lead

EU OEL (Europe, 5/2006). Notes: Binding

8 hours: 0.15 mg/m³ 8 hour(s).

Czech Republic

lead

178/2001 (Czech Republic, 6/2004).

STEL: 0.2 mg/m³ 10 minute(s).

TWA: 0.05 mg/m³ 8 hour(s).

copper

178/2001 (Czech Republic, 6/2004).

STEL: 2 mg/m³ 10 minute(s). Form: Dust

STEL: 0.2 mg/m³ 10 minute(s). Form: Fume

TWA: 1 mg/m³ 8 hour(s). Form: Dust

TWA: 0.1 mg/m³ 8 hour(s). Form: Fume

Ireland

lead

NAOSH (Ireland, 3/2002).

OELV-8hr: 0.15 mg/m³ 8 hour(s).

copper

NAOSH (Ireland, 3/2002). Notes: As Cu.

OELV-15min: 2 mg/m³, (As Cu.) 15 minute(s). Form: Dusts and Mists

OELV-8hr: 1 mg/m³, (As Cu.) 8 hour(s). Form: Dusts and Mists

OELV-8hr: 0.2 mg/m³, (As Cu.) 8 hour(s). Form: Fume

Italy

lead

Ministero della Salute (Italy, 3/2004).

TWA: 0.15 mg/m³ 8 hour(s).

Estonia

8. Exposure controls/personal protection

lead	Sotsiaalminister (Estonia, 9/2001). TWA: 0.05 MG/M3 8 hour(s). Form: inhalable dust TWA: 0.1 MG/M3 8 hour(s). Form: total dust
copper	Sotsiaalminister (Estonia, 9/2001). TWA: 0.2 MG/M3 8 hour(s). Form: inhalable dust TWA: 1 MG/M3 8 hour(s). Form: total dust
Lithuania	
lead	Del Lietuvos Higienos Normos (Lithuania, 12/2001). TWA: 0.15 MG/M3 8 hour(s). Form: Inhalable fraction TWA: 0.07 MG/M3 8 hour(s). Form: Respirable fraction
copper	Del Lietuvos Higienos Normos (Lithuania, 12/2001). Notes: As Cu TWA: 1 MG/M3, (As Cu) 8 hour(s). Form: Inhalable fraction TWA: 0.2 MG/M3, (As Cu) 8 hour(s). Form: Respirable fraction
Slovakia	
lead	Nariadenie Vlády Slovenskej republiky (Slovakia, 5/2006). TWA: 0.15 mg/m ³ 8 hour(s).
copper	Nariadenie Vlády Slovenskej republiky (Slovakia, 5/2006). CEIL: 2 mg/m ³ Form: dust CEIL: 0.2 mg/m ³ Form: respirable smoke TWA: 1 mg/m ³ 8 hour(s). Form: dust TWA: 0.1 mg/m ³ 8 hour(s). Form: respirable smoke
Hungary	
lead	EüM-SzCsM (Hungary, 11/2002). Notes: as Pb PEAK: 0.6 mg/m ³ , (as Pb) 15 minute(s). PEAK: 0.2 mg/m ³ , (as Pb) 15 minute(s). Form: Respirable TWA: 0.15 mg/m ³ , (as Pb) 8 hour(s). TWA: 0.05 mg/m ³ , (as Pb) 8 hour(s). Form: Respirable
copper	EüM-SzCsM (Hungary, 11/2002). PEAK: 0.4 mg/m ³ 15 minute(s). Form: Dust TWA: 0.1 mg/m ³ 8 hour(s). Form: Dust
Poland	
tin	Ministra Pracy I Polityki Społecznej (Poland, 10/2005). Notes: Calculated as Sn TWA: 2 mg/m ³ , (Calculated as Sn) 8 hour(s). Form: smokes and dusts
lead	Ministra Pracy I Polityki Społecznej (Poland, 10/2005). Notes: Calculated as Pb TWA: 0.05 mg/m ³ , (Calculated as Pb) 8 hour(s).
copper	Ministra Pracy I Polityki Społecznej (Poland, 10/2005). Notes: Calculated as Cu STEL: 0.3 mg/m ³ , (Calculated as Cu) 15 minute(s). TWA: 0.1 mg/m ³ , (Calculated as Cu) 8 hour(s).
Slovenia	
lead	Uradni list Republike Slovenije (Slovenia, 4/2005). PEAK: 0.4 MG/M3, 4 times per shift, 15 minute(s). Form: Inhalable fraction TWA: 0.1 MG/M3 8 hour(s). Form: Inhalable fraction
copper	Uradni list Republike Slovenije (Slovenia, 4/2005). PEAK: 4 MG/M3, 4 times per shift, 15 minute(s). Form: Inhalable fraction PEAK: 0.4 MG/M3, 4 times per shift, 15 minute(s). Form: respirable fume TWA: 1 MG/M3 8 hour(s). Form: Inhalable fraction TWA: 0.1 MG/M3 8 hour(s). Form: respirable fume
Latvia	

8. Exposure controls/personal protection

lead	LV Nat. Standardisation and Meterological Centre (Latvia, 11/2004). STEL: 0.01 MG/M3 15 minute(s). TWA: 0.005 MG/M3 8 hour(s).
rosin	LV Nat. Standardisation and Meterological Centre (Latvia, 11/2004). TWA: 4 MG/M3 8 hour(s).
copper	LV Nat. Standardisation and Meterological Centre (Latvia, 11/2004). STEL: 1 MG/M3 15 minute(s). TWA: 0.5 MG/M3 8 hour(s).
Greece	
tin	PD 90/1999 (Greece, 2/2003). TWA: 2 MG/M3 8 hour(s).
lead	PD 90/1999 (Greece, 2/2003). TWA: 0.15 MG/M3 8 hour(s).
copper	PD 90/1999 (Greece, 2/2003). STEL: 2 MG/M3 15 minute(s). Form: Dust TWA: 1 MG/M3 8 hour(s). Form: Dust TWA: 0.2 MG/M3 8 hour(s). Form: Fume
Portugal	
tin	Instituto Português da Qualidade (Portugal, 7/2004). TWA: 2 MG/M3 8 hour(s).
lead	Instituto Português da Qualidade (Portugal, 7/2004). TWA: 0.05 MG/M3 8 hour(s).
copper	Instituto Português da Qualidade (Portugal, 7/2004). Notes: Expressed as Cu TWA: 1 MG/M3, (Expressed as Cu) 8 hour(s). Form: Dusts and Mists TWA: 0.2 MG/M3, (Expressed as Cu) 8 hour(s). Form: Fume

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

Occupational exposure controls : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : Use a properly fitted, air-purifying or air-fed 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: 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.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<1 hours (breakthrough time): disposable vinyl

8. Exposure controls/personal protection

- 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, gases 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.
Recommended: overall
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

General information

Appearance

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

Important health, safety and environmental information

- Melting point** : 183 to 190°C (361.4 to 374°F)
- Solubility** : Insoluble in the following materials: cold water and hot water.

10. Stability and reactivity

- Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Acute toxicity

Over-exposure signs/symptoms

- Target organs** : Contains material which causes damage to the following organs: blood, kidneys, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Product name	List name	Name on list	Classification	Notes
United Kingdom (UK) lead	UK Occupational Exposure Limits EH40 WEL	lead	Carc. Carc	
Netherlands lead		lood Metallisch	Repro. fertility category 3	
Germany lead	Germany TRGS905	Blei Metall, bioverfügbar	RF3	

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11. Toxicological information

France lead	France Occupational Exposure Limits	plomb Métallique	Carc. C1, Carc. C2, Carc. C3, Repro. R1, Repro. R2, Repro. R3	
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12. Ecological information

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
lead	Mortality	Acute LC50 542 mg/L	Fish	96 hours
	Mortality	Acute LC50 471 mg/L	Fish	96 hours
	Mortality	Acute LC50 1.17 mg/L	Fish	96 hours
copper	Intoxication	Acute EC50 0.055 mg/L	Daphnia	48 hours
	Intoxication	Acute EC50 0.036 mg/L	Daphnia	48 hours
	Intoxication	Acute EC50 0.0318 mg/L	Daphnia	48 hours
	Mortality	Acute LC50 0.0278 mg/L	Fish	96 hours
	Mortality	Acute LC50 0.0103 mg/L	Fish	96 hours
	Mortality	Acute LC50 0.0094 mg/L	Fish	96 hours

Biodegradability

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

13. Disposal considerations

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
European waste catalogue (EWC)	: 10 08 11 dross and skimmings other than those mentioned in 10 08 10
Hazardous waste	: Yes.

14. Transport information

International transport regulations

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-

PG* : Packing group

15. Regulatory information

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Risk phrases : This product is not classified according to EU legislation.
Product use : Industrial applications.

Other EU regulations

Additional warning phrases : Contains rosin. May produce an allergic reaction. Safety data sheet available for professional user on request.

France

Professional disease or diseases : lead
rosin
RG 1
65, 66

Germany

Hazard class for water : nwg Appendix No. 4
Technical instruction on air quality control : TA-Luft Number 5.2.1: 64%
TA-Luft Number 5.2.9: 38%

Italy

Emission control directive : 102% Not classified.

16. Other information

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

History

Date of printing : 09/06/2007.
Date of issue : 09/06/2007.
Date of previous issue : No previous validation.
Version : 1
Prepared by : Simon Hosken
Environmental, Health and Safety Manager

Indicates information that has changed from previously issued version.

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

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16. Other information

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.