

SAFETY DATA SHEET



Cookson Electronics ASSEMBLY MATERIALS

LP Sterox 1Ltr

1. Identification of the preparation and of the company

Product name : LP Sterox 1Ltr**Code** : 56609**Head Office** : **Cookson Electronics**
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Tel: +44(0)1483 758400
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Tel: +44(0)1483 758400
Fax: +44(0)1483 728837**Contact person** : shosken@cooksonelectronics.com**Material uses** : Water treatment agent.

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**

- Skin contact** : Slightly hazardous by the following route of exposure: of skin contact (irritant).
- Eye contact** : Slightly hazardous by the following route of exposure: of eye contact (irritant).
Non-corrosive to the eyes.
- Toxicity data** : Not available.
- Additional warning phrases** : 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 hydrogen peroxide solution ... %	7722-84-1	1 - 5	231-765-0	O; R8 R5 Xn; R20/22 C; R35
See section 16 for the full text of the R-phrases declared above				

Occupational exposure limits, if available, are listed in section 8.

The classifications listed, indicate the potential hazards of the ingredients

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4. First-aid measures

First-aid measures

- Inhalation** : Remove to fresh air. Get medical attention if symptoms occur.
- Ingestion** : 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. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if irritation develops.
- Eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses. 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** : In a fire or if heated, a pressure increase will occur and the container may burst. 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** : No specific data.
- 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** : Use suitable protective equipment (section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Large spill** : Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.
- Small spill** : Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing.
- Storage** : Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. 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 hydrogen peroxide solution ... %	ACGIH TLV (United States, 1/2006). TWA: 1.4 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s).
Sweden hydrogen peroxide solution ... %	AFS (Sweden, 6/2005). CEIL: 3 mg/m ³ CEIL: 2 ppm TWA: 1.4 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s).
Denmark hydrogen peroxide solution ... %	Arbejdstilsynet (Denmark, 4/2005). TWA: 1.4 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s).
Norway hydrogen peroxide solution ... %	Arbejdstilsynet (Norway, 10/2003). TWA: 1.4 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s).
France hydrogen peroxide solution ... %	INRS (France, 6/2006). Notes: indicative exposure limits TWA: 1.5 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s).
Netherlands hydrogen peroxide solution ... %	Nationale MAC-lijst (Netherlands, 7/2006). Notes: Administrative OEL, 8-h TWA: 1.4 mg/m ³ 8 hour(s). OEL, 8-h TWA: 1 ppm 8 hour(s).
Germany hydrogen peroxide solution ... %	MAK-Werte Liste (Germany, 7/2006). PEAK: 0.71 mg/m ³ , 4 times per shift, 15 minute(s). PEAK: 0.5 ppm, 4 times per shift, 15 minute(s). TWA: 0.71 mg/m ³ 8 hour(s). TWA: 0.5 ppm 8 hour(s).
Finland hydrogen peroxide solution ... %	Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 4/2005). STEL: 4.2 mg/m ³ 15 minute(s). Form: Solution STEL: 3 ppm 15 minute(s). Form: Solution TWA: 1.4 mg/m ³ 8 hour(s). Form: Solution TWA: 1 ppm 8 hour(s). Form: Solution
United Kingdom (UK) hydrogen peroxide solution ... %	EH40-WEL (United Kingdom (UK), 9/2006). WEL 15 min limit: 2.8 mg/m ³ 15 minute(s). WEL 15 min limit: 2 ppm 15 minute(s). WEL 8 hrs limit: 1.4 mg/m ³ 8 hour(s). WEL 8 hrs limit: 1 ppm 8 hour(s).
Austria hydrogen peroxide solution ... %	GKV_MAK (Austria, 6/2006). PEAK: 2.8 mg/m ³ , 8 times per shift, 5 minute(s). PEAK: 2 ppm, 8 times per shift, 5 minute(s). TWA: 1.4 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s).
Switzerland	

8. Exposure controls/personal protection

hydrogen peroxide solution ... %	SUVA (Switzerland, 2/2005). Notes: not temporary STEL: 1.4 mg/m ³ 15 minute(s). STEL: 1 ppm 15 minute(s). TWA: 1.4 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s).
Belgium	
hydrogen peroxide solution ... %	Lijst Grenswaarden / Valeurs Limites (Belgium, 3/2006). TWA: 1.4 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s).
Spain	
hydrogen peroxide solution ... %	INSHT (Spain, 1/2006). TWA: 1.4 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s).
Turkey	
Hydrogen peroxide solution	NIOSH REL (United States, 12/2001). TWA: 1.4 mg/m ³ 10 hour(s). Form: All forms TWA: 1 ppm 10 hour(s). Form: All forms
Czech Republic	
hydrogen peroxide solution ... %	178/2001 (Czech Republic, 6/2004). STEL: 2 mg/m ³ 10 minute(s). STEL: 1.438 ppm 10 minute(s). TWA: 1 mg/m ³ 8 hour(s). TWA: 0.719 ppm 8 hour(s).
Ireland	
hydrogen peroxide solution ... %	NAOSH (Ireland, 3/2002). OELV-15min: 3 mg/m ³ 15 minute(s). OELV-15min: 2 ppm 15 minute(s). OELV-8hr: 1.5 mg/m ³ 8 hour(s). OELV-8hr: 1 ppm 8 hour(s).
Italy	
No exposure limit value known.	
Estonia	
hydrogen peroxide solution ... %	Sotsiaalminister (Estonia, 9/2001). CEIL: 3 MG/M3 15 minute(s). CEIL: 2 PPM 15 minute(s). TWA: 1.4 MG/M3 8 hour(s). TWA: 1 PPM 8 hour(s).
Lithuania	
hydrogen peroxide solution ... %	Del Lietuvos Higienos Normos (Lithuania, 12/2001). CEIL: 3 MG/M3 CEIL: 2 PPM TWA: 1.4 MG/M3 8 hour(s). TWA: 1 PPM 8 hour(s).
Slovakia	
hydrogen peroxide solution ... %	Nariadenie Vlády Slovenskej republiky (Slovakia, 5/2006). CEIL: 1.4 mg/m ³ TWA: 1.4 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s).
Hungary	
No exposure limit value known.	
Poland	
hydrogen peroxide solution ... %	Ministra Pracy I Polityki Społecznej (Poland, 10/2005). STEL: 4 mg/m ³ 15 minute(s). TWA: 1.5 mg/m ³ 8 hour(s).
Slovenia	

8. Exposure controls/personal protection

hydrogen peroxide solution ... %

Uradni list Republike Slovenije (Slovenia, 4/2005).

PEAK: 1.4 MG/M3, 4 times per shift, 15 minute(s).

PEAK: 1 PPM, 4 times per shift, 15 minute(s).

TWA: 1.4 MG/M3 8 hour(s).

TWA: 1 PPM 8 hour(s).

Latvia

No exposure limit value known.

Greece

hydrogen peroxide solution ... %

PD 90/1999 (Greece, 2/2003).

STEL: 3 MG/M3 15 minute(s).

TWA: 1.4 MG/M3 8 hour(s).

TWA: 1 PPM 8 hour(s).

Portugal

hydrogen peroxide solution ... %

Instituto Português da Qualidade (Portugal, 7/2004).

TWA: 1 PPM 8 hour(s).

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 : Recommended:None assigned.

Hand protection :

<1 hour(s) (breakthrough time): disposable vinyl

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 : Recommended:None assigned.

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 : Liquid.

Colour : Colourless.

Odour : Odourless.

Important health, safety and environmental information

pH : 5.5 [Conc. (% w/w): 100%]

Boiling point : 101°C (213.8°F)

VOC content :

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9. Physical and chemical properties

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: upper respiratory tract, skin, eye, lens or cornea.

12. Ecological information

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
hydrogen peroxide	Intoxication	Acute EC50 24 mg/L	Daphnia	48 hours
	Mortality	Acute LC50 26.7 mg/L	Fish	96 hours
	Mortality	Acute LC50 22 mg/L	Fish	96 hours

Biodegradability

- Other adverse effects** : No known significant effects or critical hazards.
- AOX** : The product does not contain organically bound halogens which could lead to an AOX value in waste water.

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)** : 16 03 04 inorganic wastes other than those mentioned in 16 03 03
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. Transport information

International transport regulations

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.

Safety phrases : S37- Wear suitable gloves.

Product use : Consumer applications.

Other EU regulations

Additional warning phrases : Safety data sheet available for professional user on request.

Germany

Hazard class for water : nwg Appendix No. 4

Italy

Emission control directive : 3.002% Not classified.

16. Other information

Full text of R-phrases referred to in sections 2 and 3 - Europe : R8- Contact with combustible material may cause fire.
R5- Heating may cause an explosion.
R20/22- Harmful by inhalation and if swallowed.
R35- Causes severe burns.

Full text of classifications referred to in sections 2 and 3 - Europe : O - Oxidising
C - Corrosive
Xn - Harmful

History

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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 REACH 1907/2006 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.

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16. Other information

[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.