

SAFETY DATA SHEET



Cookson Electronics ASSEMBLY MATERIALS

Central Heating Leak Sealer F4

1. Identification of the preparation and of the company

Product name : Central Heating Leak Sealer
F4

Code : 56603

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Material uses : Sealants

2 Hazards identification

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xn; R20

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).

Toxicity data : Not available.

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 Cellulose, carboxymethyl ether, sodium salt glycerol 1-stearate See section 16 for the full text of the R-phrases declared above	9004-32-4 123-94-4	40 - 60 40 - 60	204-664-4	Xn; R20 Not classified.

Occupational exposure limits, 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** : Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately.
- Ingestion** : Wash out mouth with water. Keep person warm and at rest. 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. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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4. First-aid measures

- 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- 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** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
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** : Use suitable protective equipment (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** : 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** : Containers that have been opened must be carefully resealed and kept upright to prevent leakage. 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 glycerol 1-stearate	ACGIH TLV (United States, 1/2008). TWA: 10 mg/m ³ 8 hour(s). Form: Total particulate mass
Sweden glycerol 1-stearate	AFS 2005:17 (Sweden, 6/2007). TWA: 5 mg/m ³ 8 hour(s). Form: total dust
Denmark No exposure limit value known.	
Norway silica, amorphous, fumed	Arbeidstilsynet (Norway, 10/2003). TWA: 1.5 mg/m ³ 8 hour(s). Form: respirable dust
France No exposure limit value known.	
Netherlands No exposure limit value known.	
Germany silica, amorphous, fumed	MAK-Werte Liste (Germany, 7/2006). TWA: 0.3 mg/m ³ 8 hour(s). Form: measured as the respirable fraction of the aerosol TRGS900 AGW (Germany, 1/2006). TWA: 4 mg/m ³ 8 hour(s). Form: Inhalable fraction
Finland silica, amorphous, fumed	Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 4/2005). TWA: 5 mg/m ³ 8 hour(s).
United Kingdom (UK) silica, amorphous, fumed	EH40-WEL (United Kingdom (UK), 9/2006). WEL 8 hrs limit: 6 mg/m ³ 8 hour(s). Form: inhalable dust WEL 8 hrs limit: 2.4 mg/m ³ 8 hour(s). Form: respirable dust
Austria silica, amorphous, fumed	GKV_MAK (Austria, 6/2006). TWA: 0.3 mg/m ³ 8 hour(s). Form: respirable fraction
Switzerland silica, amorphous, fumed	SUVA (Switzerland, 2/2005). Notes: not temporary TWA: 4 mg/m ³ 8 hour(s). Form: inhalable dust
Belgium glycerol 1-stearate	Lijst Grenswaarden / Valeurs Limites (Belgium, 6/2007). TWA: 10 mg/m ³ 8 hour(s).
Spain glycerol 1-stearate	INSHT (Spain, 1/2008). TWA: 10 mg/m ³ 8 hour(s).
Turkey silica, amorphous, fumed	NIOSH REL (United States, 6/2001). TWA: 6 mg/m ³ 10 hour(s). Form: All forms
Czech Republic silica, amorphous, fumed	178/2001 (Czech Republic, 6/2004). TWA: 0.1 mg/m ³ 8 hour(s). Form: Respirable dust TWA: 4 mg/m ³ 8 hour(s). Form: Total dust
Ireland glycerol 1-stearate	NAOSH (Ireland, 8/2007). OELV-8hr: 10 mg/m ³ 8 hour(s).

8. Exposure controls/personal protection

Italy

glycerol 1-stearate

ACGIH TLV (United States, 1/2008).

TWA: 10 mg/m³ 8 hour(s). Form: Total particulate mass

Estonia

silica, amorphous, fumed

Sotsiaalminister (Estonia, 9/2001).

TWA: 2 MG/M3 8 hour(s). Form: inhalable dust

Lithuania

glycerol 1-stearate

Del Lietuvos Higienos Normos (Lithuania, 10/2007).

TWA: 5 mg/m³ 8 hour(s).

Slovakia

silica, amorphous, fumed

Nariadenie vlády Slovenskej republiky (Slovakia, 5/2006).

TWA: 2 mg/m³ 8 hour(s). Form: respirable compact aerosols

TWA: 10 mg/m³ 8 hour(s). Form: total compact aerosols

Hungary

No exposure limit value known.

Poland

No exposure limit value known.

Slovenia

silica, amorphous, fumed

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

TWA: 4 MG/M3 8 hour(s). Form: Inhalable fraction

Latvia

No exposure limit value known.

Greece

No exposure limit value known.

Portugal

glycerol 1-stearate

Instituto Português da Qualidade (Portugal, 3/2007).

TWA: 10 mg/m³ 8 hour(s).

Recommended monitoring procedures : 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 : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants 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 : 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

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. 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	: Liquid.
Colour	: White.
Odour	: Characteristic.
VOC content	: 0 % (w/w) [ISO % 11890-2]

10. Stability and reactivity

Stability	: The product is stable.
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	: Harmful by inhalation.
Ingestion	: Acute oral toxicity (LD50) Rat >2000 mg/Kg 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

12. Ecological information

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Cellulose, carboxymethyl ether, sodium salt	-	Acute EC50 87.26 to 165.37 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	-	Acute LC50 >20000000 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 25 to 50 g	96 hours
	-	Acute LC50 1000000 to 3300000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult	48 hours

Biodegradability

Other adverse effects	: No known significant effects or critical hazards.
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13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. 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 split material and runoff and contact with soil, waterways, drains and sewers.
- European waste catalogue (EWC)** : 16 03 06 organic wastes other than those mentioned in 16 03 05
- 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.

Hazard symbol or symbols : 

Harmful

Risk phrases : R20- Harmful by inhalation.

Safety phrases : S2- Keep out of the reach of children.
S46- If swallowed, seek medical advice immediately and show this container or label.

Contains : Cellulose, carboxymethyl ether, sodium salt

Product use : Consumer applications, Industrial applications.

Other EU regulations

Tactile warning of danger : Yes, applicable.

Germany

Hazard class for water : 2 Appendix No. 4

Italy

Emission control directive : Not classified.

16. Other information

Full text of R-phrases referred to in sections 2 and 3 - Europe : R20- Harmful by inhalation.

Full text of classifications referred to in sections 2 and 3 - Europe : 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.

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.