SAFETY DATA SHEET

Cookson Electronics ASSEMBLY MATERIALS

Superconcentrate Protector F1 Blister

1. Identification of the preparation and of the company

Product name : **Superconcentrate Protector F1 Blister**

Code : **61003**

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Contact person : **shosken@cooksonelectronics.com**

Material uses : Water treatment agent.

2 Hazards identification

The product 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).

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				
triethanolamine	102-71-6	20 - 30	203-049-8	Not classified.
benzotriazole	95-14-7	1 - 5	202-394-1	Xn; R22 Xi; R36 R52/53
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, indecate the potential hazards of the ingredients

4. First-aid measures

First-aid measures

Inhalation : If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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. Get 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. Get medical attention if symptoms occur.

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 : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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
nitrogen oxides
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 : Avoid breathing vapour or mist. 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 : Place spilt material in an appropriate container for disposal. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. Use a water rinse for final clean-up.

Small spill : Stop leak if without risk. Move containers from spill area. 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. Dilute with plenty of water.

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. Avoid breathing vapour or mist.

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.

Czech Republic - Storage code : III

8. Exposure controls/personal protection

Exposure limit values

Ingredient name	Occupational exposure limits
Europe	
triethanolamine	**ACGIH TLV (United States, 1/2007).** TWA: 5 mg/m³ 8 hour(s).
Sweden	
triethanolamine	**AFS (Sweden, 6/2005).** STEL: 10 mg/m³ 15 minute(s). TWA: 5 mg/m³ 8 hour(s).
Denmark	
triethanolamine	**Arbejdstilsynet (Denmark, 4/2005).** TWA: 3.1 mg/m³ 8 hour(s). TWA: 0.5 ppm 8 hour(s).
Norway	
triethanolamine	**Arbeidstilsynet (Norway, 10/2003).** TWA: 5 mg/m³ 8 hour(s).
propane-1,2-diol	**Arbeidstilsynet (Norway, 11/2007).** TWA: 79 mg/m³ 8 hour(s). TWA: 25 ppm 8 hour(s).
France	
No exposure limit value known.	
Netherlands	
No exposure limit value known.	
Germany	
No exposure limit value known.	
Finland	
No exposure limit value known.	
United Kingdom (UK)	
propane-1,2-diol	**EH40/2005 WELs (United Kingdom (UK), 8/2007).** TWA: 10 mg/m³ 8 hour(s). Form: Particulate TWA: 474 mg/m³ 8 hour(s). Form: Sum of vapour and particulates TWA: 150 ppm 8 hour(s). Form: Sum of vapour and particulates
Austria	
triethanolamine	**GKV_MAK (Austria, 6/2006).** STEL: 10 mg/m³, 4 times per shift, 15 minute(s). Form: Inhalable fraction STEL: 1.6 ppm, 4 times per shift, 15 minute(s). Form: Inhalable fraction TWA: 5 mg/m³ 8 hour(s). Form: Inhalable fraction TWA: 0.8 ppm 8 hour(s). Form: Inhalable fraction
Switzerland	

8. Exposure controls/personal protection

No exposure limit value known.

Belgium

triethanolamine	**Lijst Grenswaarden / Valeurs Limites (Belgium, 3/2006).** TWA: 5 mg/m³ 8 hour(s).

Spain

triethanolamine	**INSHT (Spain, 1/2007).** TWA: 5 mg/m³ 8 hour(s).

Turkey

No exposure limit value known.

Czech Republic

triethanolamine	**178/2001 (Czech Republic, 6/2004).** STEL: 10 mg/m³ 10 minute(s). STEL: 1.64 ppm 10 minute(s). TWA: 5 mg/m³ 8 hour(s). TWA: 0.82 ppm 8 hour(s).

Ireland

triethanolamine	**NAOSH (Ireland, 3/2002).** OELV-8hr: 5 mg/m³ 8 hour(s).
propane-1,2-diol	**NAOSH (Ireland, 8/2007).** OELV-8hr: 10 mg/m³ 8 hour(s). Form: particulate OELV-8hr: 470 mg/m³ 8 hour(s). Form: vapour and particulates OELV-8hr: 150 ppm 8 hour(s). Form: vapour and particulates

Italy

triethanolamine	**ACGIH TLV (United States, 1/2007).** TWA: 5 mg/m³ 8 hour(s).

Estonia

triethanolamine	**Sotsiaalminister (Estonia, 9/2001).** STEL: 10 MG/M3 15 minute(s). TWA: 5 MG/M3 8 hour(s).

Lithuania

triethanolamine	**Del Lietuvos Higienos Normos (Lithuania, 12/2001).** STEL: 10 MG/M3 15 minute(s). TWA: 5 MG/M3 8 hour(s).
sebacic acid	**Del Lietuvos Higienos Normos (Lithuania, 10/2007).** TWA: 4 mg/m³ 8 hour(s).
propane-1,2-diol	**Del Lietuvos Higienos Normos (Lithuania, 10/2007).** TWA: 7 mg/m³ 8 hour(s).

Slovakia

2-Propenoic acid, homopolymer, sodium salt	**Nariadenie Vlády Slovenskej republiky (Slovakia, 6/2007).** TWA: 5 mg/m³ 8 hour(s). Form: total compact aerosols

Hungary

No exposure limit value known.

Poland

No exposure limit value known.

Slovenia

triethanolamine	**Uradni list Republike Slovenije (Slovenia, 4/2005).** TWA: 5 MG/M3 8 hour(s). Form: Inhalable fraction

Latvia

8. Exposure controls/personal protection

sebacic acid	**LV Nat. Standardisation and Meterological Centre (Latvia, 5/2007).** TWA: 4 mg/m³ 8 hour(s).
benzotriazole	**LV Nat. Standardisation and Meterological Centre (Latvia, 5/2007).** TWA: 5 mg/m³ 8 hour(s).
propane-1,2-diol	**LV Nat. Standardisation and Meterological Centre (Latvia, 5/2007).** TWA: 7 mg/m³ 8 hour(s).
2-Propenoic acid, homopolymer, sodium salt	**LV Nat. Standardisation and Meterological Centre (Latvia, 5/2007).** TWA: 5 mg/m³ 8 hour(s). Form: dust
Greece	
No exposure limit value known.	
Portugal	
triethanolamine	**Instituto Português da Qualidade (Portugal, 7/2004).** TWA: 5 MG/M3 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.

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 : Colourless to light yellow.

Odour : Faint

Important health, safety and environmental information

pH : 7.3

Relative density : 1.175

9. Physical and chemical properties

Solubility : Easily soluble in the following materials: cold water and hot water.

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 : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

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

12. Ecological information

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
triethanolamine	-	Acute EC50 609.98 to 658.3 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia	48 hours
	-	Acute LC50 11800000 to 13000000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	-	Acute LC50 >100000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon	48 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. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

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.

Risk phrases : This product is not classified according to EU legislation.

Product use : Consumer applications, Industrial applications.

Other EU regulations

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

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 : R22- Harmful if swallowed.
R36- Irritating to eyes.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in sections 2 and 3 - Europe : Xn - Harmful
Xi - Irritant

History

Date of printing : **20/07/2011.**

Date of issue : **14/03/2011.**

Date of previous issue : **03/12/2010.**

Version : **2**

Prepared by : Not available.

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 soley 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

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.