# SAFETY DATA SHEET



### S/C Protector F1 290ml

## 1. Identification of the preparation and of the company

Product name : S/C Protector F1 290ml

**Code** : 57268

Head Office : Cookson Electronics Manufacturer

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Contact person : shosken@cooksonelectronics.com

Material uses: Water treatment agent.

Koenendelseweg 29 5222 BG

's-Hertogenbosch The Netherlands Tel: +31 73 6280 111 Fax: +31 73 6219 283

: Cookson Electronics

### 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 benzotriazole	102-71-6 95-14-7	20 - 30 1 - 5	203-049-8 202-394-1	Not classified. 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

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### 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.

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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. 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

# 8. Exposure controls/personal protection

: 111

#### **Exposure limit values**

Ingredient name Occupational exposure limits

**Europe** 

triethanolamine ACGIH TLV (United States, 1/2007).

TWA: 5 mg/m<sup>3</sup> 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/m<sup>3</sup> 8 hour(s). TWA: 0.5 ppm 8 hour(s).

**Norway** 

triethanolamine Arbeidstilsynet (Norway, 10/2003).

TWA: 5 mg/m<sup>3</sup> 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/m<sup>3</sup> 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

raction

STEL: 1.6 ppm, 4 times per shift, 15 minute(s). Form: Inhalable

raction

TWA: 5 mg/m³ 8 hour(s). Form: Inhalable fraction TWA: 0.8 ppm 8 hour(s). Form: Inhalable fraction

**Switzerland** 

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## 8. Exposure controls/personal protection

No exposure limit value known.

**Belgium** 

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

TWA: 5 mg/m<sup>3</sup> 8 hour(s).

**Spain** 

triethanolamine INSHT (Spain, 1/2007).

TWA: 5 mg/m<sup>3</sup> 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/m<sup>3</sup> 8 hour(s).

propane-1,2-diol Del Lietuvos Higienos Normos (Lithuania, 10/2007).

TWA: 7 mg/m<sup>3</sup> 8 hour(s).

**Slovakia** 

2-Propenoic acid, homopolymer, sodium salt Nariad

Nariadenie Vlády Slovenskej republiky (Slovakia, 6/2007).

TWA: 5 mg/m<sup>3</sup> 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

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#### **Exposure controls/personal protection** 8.

sebacic acid LV Nat. Standardisation and Meterological Centre (Latvia,

TWA: 4 mg/m<sup>3</sup> 8 hour(s).

benzotriazole LV Nat. Standardisation and Meterological Centre (Latvia,

5/2007).

TWA: 5 mg/m<sup>3</sup> 8 hour(s).

propane-1,2-diol LV Nat. Standardisation and Meterological Centre (Latvia,

5/2007).

TWA: 7 mg/m<sup>3</sup> 8 hour(s).

2-Propenoic acid, homopolymer, sodium salt LV Nat. Standardisation and Meterological Centre (Latvia,

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** 

**Hand protection** 

Recommended: None assigned.

: 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.

#### Physical and chemical properties 9.

#### **General information**

**Appearance** 

**Physical state** : Liquid.

Colour Colourless to light yellow.

Odour : Faint

Important health, safety and environmental information

: 7.3 **Relative density** : 1.175

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### 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 triethanolamine	Test -	Result Acute EC50 609.98 to 658.3 mg/L Fresh water	Species Daphnia - Water flea - Ceriodaphnia dubia	<b>Exposure</b> 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.

## 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.

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### **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

#### Regulatory information **15**.

#### **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.

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

**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

**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

aguatic environment.

Full text of classifications referred

: Xn - Harmful

to in sections 2 and 3 - Europe

Xi - Irritant

**History** 

20/07/2011. **Date of printing** Date of issue 14/03/2011. Date of previous issue : 03/12/2010.

: 2 Version

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** 

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### 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.

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