

Halstead Part No: 951510 Halstead Description: Inhibitor

Supplier: Cookson Electronics

Supplier Reference: MB-1 Customer(s): Wickes

Customer Reference: 440-100 Wickes Central Heating Inhibitor

Conforms to 91/155/EEC - 2001/58/EC

SAFETY DATA SHEET



MB-1

Identification of the substance/preparation and of the company/undertaking

23992

Code Head Office

Cookson Electronics Forsyth Road

Sheerwater Woking Surrey

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Manufacturer

Cookson Electronics Assembly Materials Group
Ashford Manufacturing Site Henwood Industrial Estate Hythe Road Ashford Kent

England

TN24 8DH Tel: +44 (0) 1233 610110 Fax: +44 (0) 1233 664323

: Water-conditioning agent.

Composition/information on ingredients

Substance/preparation

: Preparation

Chemical name*	CAS no.	%	EC Number	Classification
Europe triethanolamine	102-71-6	1 - 5	203-049-8	Not classified.
See section 16 for the full text of the R Phrases declared above				

^{*} Occupational Exposure Limit(s), if available, are listed in Section 8

Hazards identification

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

Classification

: Not classified.

: Slightly hazardous in case of skin contact (irritant). Skin contact · Not available

Toxicity data

First aid measures

First-Aid measures General

Inhalation

Ingestion

: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Skin Contact

: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before

reuse. Obtain medical attention.

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Cold water may be used. Obtain medical attention.

Date of issue

: 08/04/2005.

Page: 1/6

^{*} The classifications listed, indecate the potential hazards of the ingredients



MB-1

Fire-fighting measures

Extinguishing media

: Recommended: alcohol resistant foam, CO2, powders, water spray. Not to be used : waterjet.

Special fire-fighting procedures

Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Recommendations

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or

Accidental release measures 6.

Personal Precautions

; Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

Environmental precautions and clean-up methods

: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary

Note: see section 1 for emergency contact information and section 13 for waste disposal.

Handling and storage

Handling

: Do not ingest. Do not breathe gas/fumes/vapour/spray. If ingested, seek medical advice immediately and show the container or the label.

Hygiene measures

: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of

: Do not reuse container Storage

Packaging materials

: Use original container. Recommended

Exposure controls/personal protection

Engineering measures

: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

Hygiene measures

Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of

Ingredient name

Occupational exposure limits

Europe

triethanolamine

ACGIH TLV (United States, 9/2004). TWA: 5 mg/m3 8 hour(s). Form: All forms

Sweden

triethanolamine

AFS (Sweden, 3/2000).

KTV: 10 mg/m³ 15 minute(s). Form: All forms NGV: 5 mg/m³ 8 hour(s). Form: All forms

Denmark

triethanolamine

Arbejdstilsynet (Denmark, 10/2002). GV: 3.1 mg/m³ 8 hour(s). Form: All forms GV: 0.5 ppm 8 hour(s). Form: All forms

Norway

triethanolamine

Arbeidstilsynet (Norway, 12/2003). AN: 5 mg/m3 8 hour(s). Form: All forms

France

Netherlands triethanolamine

Nationale MAC-lijst (Netherlands, 1/2004). Notes:

TGG: 5 mg/m3 8 hour(s). Form: All forms

Germany

Date of issue

: 08/04/2005.

Page: 2/6



MB-1

triethanolamine

TRGS900 MAK (Germany, 9/2003).
TWA: 5 mg/m³ 8 hour(s). Form: Inhalable fraction

Finland

United Kingdom (UK)

Where a MEL has been assigned, exposure should be reduced as low as is reasonably praticable and should not exceed the MEL.

Austria

triethanolamine

BMWA_MAK (Austria, 12/2003).
STEL: 10 mg/m³ 4 times per shift, 15 minute(s). Form: All forms
STEL: 1.6 ppm 4 times per shift, 15 minute(s). Form: All forms
TWA: 5 mg/m³ 8 hour(s). Form: All forms
TWA: 0.8 ppm 8 hour(s). Form: All forms

Switzerland

Lijst Grenswaarden / Valeurs Limites (Belgium, 10/2003). triethanolamine

TWA: 5 mg/m³ 8 hour(s). Form: All forms

Czech Republic triethanolamine 178/2001 (Czech Republic, 1/2001).

STEL: 10 mg/m³ 10 minute(s). Form: All forms STEL: 1.64 ppm 10 minute(s). Form: All forms TWA: 5 mg/m³ 8 hour(s). Form: All forms TWA: 0.82 ppm 8 hour(s). Form: All forms

Ireland

triethanolamine NAOSH (Ireland, 1/2002).

OELV: 5 mg/m3 8 hour(s). Form: All forms

Spain

triethanolamine INSHT (Spain, 10/2004).

VLA-ED: 5 mg/m3 8 hour(s). Form: All forms

triethanolamine

Sotsiaalminister (Estonia, 9/2001). STEL: 10 mg/m³ 15 minute(s). Form: All forms TWA: 5 mg/m³ 8 hour(s). Form: All forms

Lithuania

triethanolamine Del Lietuvos Higienos Normos (Lithuania, 12/2001). STEL: 10 mg/m³ 15 minute(s). Form: All forms

TWA: 5 mg/m3 8 hour(s). Form: All forms

Del Lietuvos Higienos Normos (Lithuania, 12/2001).

TWA: 10 mg/m3 8 hour(s). Form: All forms

Slovenia

boric acid

triethanolamine Uradni list Republike Slovenije (Slovenia, 1/2000).

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

ersonal protective equipment

espiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved

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 or gauntlets complying with an approved

standard should be worn at all times when handling chemical products if a risk

assessment indicates this is necessary. <1 hour(s) (breakthrough time): disposable vinyl

: Safety eyewear complying with an approved standard should be used when a risk Eye protection

assessment indicates this is necessary to avoid exposure to liquid splashes, mists or

Recommended: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.

Date of issue : 08/04/2005. Page: 3/6



MB-1

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.

Body: Recommended: 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.

: Not available. Additional Information

Physical and chemical properties

General information

Appearance Physical state

: Liquid.

: Colourless to light yellow. Colour

: Characteristic. Odour

Important health, safety and environmental information

: 7.2 [Neutral.] : 100°C (212°F) **Boiling point**

Melting point May start to solidify at 22°C (71.6°F) based on data for: triethanolamine. Weighted

average: 0.57°C (33°F)

Relative density : 1.021

Solubility : Easily soluble in cold water, hot water.

: Kinematic: 10 cSt Viscosity

: >1 (Air = 1) Vapor density

: The highest known value is 0.36 (water) Weighted average: 0.35compared to (n-BUTYL ACETATE=1) Evaporation rate (butyl

acetate = 1)

Stability and reactivity

: The product is stable. Stability

11. Toxicological information

Acute toxicity

Ingredient name Route Species 2200 mg/kg Oral Rabbit LD50 2200 mg/kg Guinea pig LD50 5846 mg/kg Oral Mouse

Local effects

Skin irritation : Slightly hazardous in case of skin contact (irritant). Sensitisation : Slightly hazardous in case of skin contact (sensitiser).

Toxicity data : Not available.

Over-exposure signs/symptoms

12. Ecological information

Ecotoxicity data

Ingredient name triethanolamine Species Scenedesmus subspicatus Period 48 hour(s) Result 470 mg/l

(EC50)

Pimephales promelas (LC50) 96 hour(s) 11800 mg/l

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

: 08/04/2005. Date of issue Page: 4/6



MB-1

Disposal considerations

Methods of disposal; Waste of residues ; Contaminated packaging

: The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.

Waste classification : Not applicable. European waste catalogue : 16 03 06

(EWC)

Hazardous waste

To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

Transport information

International transport regulations

Regulatory	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
Information						
ADR/RID Class	Not regulated.	-	-	_		-
IMDG Class	Not regulated.	-	-	_		-
IATA-DGR Class	Not regulated.	-	-	-		-

15. Regulatory information

EU Regulations

Risk Phrases : This product is not classified according to the EU regulations.

Safety Phrases : S37- Wear suitable gloves.

Product use : Classification and labelling have been performed according to EU directives 67/548/EEC,

1999/45/EC, including amendments and the intended use

- Industrial applications

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

EC Statistical classification

(Tariff Code)

: 32089091

National regulations

Denmark

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

Denmark - Cancer risks : Not available.

MAL-code Denmark - Restrictions on

Statutory order 517 on aerosols

: Not to be used by professional users below 18 years of age, see the National Working Environment Authorities Executive Order on young peoples dangerous work.

: Not applicable.

Netherlands

K-Klasse : K5

CPR : Not regulated.

SHHR : 0ZZ

Germany

Other Regulations **TRGS 900** Ordinance on combustible : Class: Omitted

liquids

Date of issue : 08/04/2005. Page: 5/6



MB-1

Technical instruction on air : Class II: 0.51%

quality control

Hazard class for water

16. Other information

Full text of R phrases referred to $\,:\,$ Not applicable, in sections 2 and 3 $\,-\,$ Europe

Full text of classifications

referred to in sections 2 and 3 -

: Not applicable.

Europe

History Date of printing

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Prepared by : Simon Hosken

Environmental, Health and Safety Manager

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 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.

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.

Version 2 Pag	age: 6/6