### **EEC - SAFETY DATA SHEET**

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### Identification of compound/preparation, and company

Trade name: EcoCHILL

**Producer:** Environmental Process Systems Limited, Unit 32, Mere View Industrial

Estate, Yaxley, Cambridgeshire, UK, PE7 3HS

Tel: +44 (0)1733 243400 Fax: +44 (0)1733 243344

e-mail: info@epsltd.co.uk

# 2. Composition/Information on ingredients

Chemical characterisation: Mono-propylene glycol (propan-1,2-diol) with corrosion inhibitors

CAS No: 57-55-6

### 3. Possible dangers

None anticipated

#### 4. First aid measures

**Contact with eyes** Rinse thoroughly with plenty of water for at least 10 minutes, keeping

eyes open

**Contact with skin** Wash affected parts thoroughly with soap and water

**Inhalation** Expose person to fresh air and keep them calm

**Swallowing** Wash out mouth cavity with water and drink plenty of water

#### 5. Measures to be taken in the event of fire

**Suitable extinguishing agents** Water spray, carbon dioxide, alcohol resistant foam, and dry

extinguishers

**Dangerous combustion** Propionaldehyde. In cases of complete water evaporation

products combustion will result in carbon dioxide and water

**Special safety equipment**Use respiratory protective device. Wear fire brigade clothing

Special dangers caused by the substance itself or during its production, by its combustion

products or gases thus generated Propylene glycol and its aqueous solutions may form

flammable vapour-air mixtures upon heating

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#### 6. Accidental release measures

Personal protective Not relevant. Remove contaminated clothing and wash body down

measures thoroughly with water

**Environmental protection** 

measures

Do not discharge product into natural waters without pretreatment (biological treatment plant). Bind the liquid by using a suitable absorbent material (sawdust, sand, etc.) and dispose of in accordance with local

regulations

Process of cleaning/

absorption

Wash away spills thoroughly with large quantities of water. In case of release of larger quantities which might flow into the draining system or

waters, contact the appropriate authorities.

# 7. Handling and storage

Handling Ensure thorough ventilation of stores and work areas. When correctly

used, no special measures required

Fire and explosion

protection

If exposed to fire keep containers cool by spraying with water

Store in polyethylene or steel containers. Do not expose containers to Storage

direct sunlight. Earth all containers and equipment. Storage in

galvanised containers is not recommended

#### 8. Measures to restrict exposure and for personnel protection equipment

Additional comments regarding the design of the technical installations see item 7

Workplace related limits to be controlled None

Personal protection equipment

**Breathing protection** Not required Eve protection Protective goggles Hand protection Rubber gloves

**Body protection** Observe usual precautions when handling chemicals

#### Physical and chemical characteristics

**Form** Liquid Colour Colourless

Odour Almost odourless

**Boiling point** >150 °C Freezing point <-50 °C

Density at 20 °C approx. 1.053 g/cm<sup>3</sup>

Vapour pressure at 20 °C

2 mbar

Viscosity at 20 °C approx. 70 mm<sup>2</sup>/s Solubility in water completely soluble

pH value (500 g/l 20 °C) 6.5-8.5 Flash point >100 °C **Ignition temperature** >200 °C Lower explosion limit 2.6 vol% **Upper explosion limit** 12.6 vol% EcoCHILL EEC Safety Data Sheet Last Revision date: 20/06/01

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### 10. Stability and reactivity

**Chemical stability** Stable with usual handling and storage

Substances to be avoided Oxidising agents

### 11. Toxicological data

Acute oral toxicity  $(LD_{50})$ : >2000 mg/kg (rat)

**Primary skin irritation** (OECD 404): non-irritant to rabbit

Primary mucosal membrane irritation (OECD 405): non-irritant to rabbit's eyes

Inhalation risk (rat): no diagnosis

Uptake of harmful amounts through skin reabsorption unlikely.

Temporary burning and redness may occur **Contact with eyes** 

Contact with skin Occasional contact produces no or only slight effects. Single exposure

unlikely to cause harm

Inhalation Inhalation of mists or aerosols are not harmful although irritation of

mucosal membranes in the respiratory system may occur

Irritation of mucosal membranes and digestive system possible **Swallowing** 

Mutagenicity No mutagenic effects observed

Carcinogenicity Not carcinogenic

**Additional information** When correctly used as prescribed the product will not, according to

best available knowledge and experience, be damaging to health

## 12. Ecological data

**Elimination information** Test method: OECD 302 B/ISO 9888/EEC 88/3032 C

>70% (Zahn-Wellens test): easy to eliminate

The product will not affect the activity of activated sludge in a biological effluent clarification plant if introduced correctly according to local regulations

Water danger class (wdc) 0 (self-classification)

 $LC_{50}$ : >10,000 mg/l (Leuciscus idus, 96h) **Toxicity to fish** 

# 13. Information about the disposal of toxic waste

**Disposal** EcoCHILL must be disposed of by special means, e.g. suitable

incineration, in accordance with local regulations

Contaminated packaging Contaminated packaging may be used again after cleansing it

thoroughly

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## 14. Transportation data

Not subject to the regulations for inflammable liquids. May be sent by post

GGVE/RID: - GGVS/ADR: - IMDG-Code: - UN-No: - IATA-DGR: - TA-air: -

The product is not classified according to transport regulations

### 15. Regulations

The product is not subject to registration according to the regulations of dangerous goods and therefore does not have to be marked by law.

Contents Propylene glycol

Symbol -

R-phrases -

S-phrases -

Water danger class (wdc) 0 (self classification)

#### 16. Further information

This safety data sheet is intended to provide information and recommendations as to how to handle chemical substances and preparations in accordance with the essential requirements of safety precautions and physical, toxicological, and ecological data, and how to handle, store, transport, and use them safely.

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