

EEC – SAFETY DATA SHEET

Acc. 91/155/EEC

Last Revision Date: 20/06/01

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1. 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 products	Propionaldehyde. In cases of complete water evaporation 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	

6. Accidental release measures

Personal protective measures	Not relevant. Remove contaminated clothing and wash body down 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
Storage	Store in polyethylene or steel containers. Do not expose containers to 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
Eye 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 ³
Vapour pressure at 20 °C	2 mbar
Viscosity at 20 °C	approx. 70 mm ² /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%

10. Stability and reactivity**Chemical stability** Stable with usual handling and storage**Substances to be avoided** Oxidising agents**11. Toxicological data**

Acute oral toxicity (LD₅₀): >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.

Contact with eyes Temporary burning and redness may occur**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**Swallowing** Irritation of mucosal membranes and digestive system possible**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)**Toxicity to fish** LC₅₀: >10,000 mg/l (Leuciscus idus, 96h)**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

