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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: PATHCLEAR LIQUID

1.2 Relevant identified uses of the substance/mixture and uses advised against

Liquid ice remover for and preventative. Professional use.

1.3 Details of the supplier of the safety data sheet

SUPPLIER:

CHEMICAL SOLUTIONS UK
42 Kennel Lane
Fetcham
SURREY
08452500943
sales@chemical-solutions.co.uk

1.4 Emergency telephone number

07904953893

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP Regs.: Acute tox.4 H302; STOT RE2 H373

2.2 Label elements

Label elements under CLP:

Contains: Ethanediol

Hazard pictograms: GHS07, GHS08



Signal Word: Warning.

Hazard Statements: H302: Harmful if swallowed. H373: May cause damage to organs (kidneys, liver) through prolonged or repeated exposure if swallowed.

Precautionary statements: PREVENTION: Do not eat, drink or smoke when using this product. Wash after use.

RESPONSE: IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth.

STORAGE: Store locked up.

DISPOSAL: Dispose of contents/container to an approved waste contractor.

2.3 Other hazards

PBT: this material does not contain any substance identified as a PBT or vPvB substance

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3. Composition/information on ingredients

3.1 Substances

3.2 Mixtures

Hazardous ingredients:

CAS	EINECS	Classification CLP	Concentration %w/w
1,2-Ethanediol (REACH Reg. No. 01-2119456816-28)			
107-21-1	203-473-3	Acute tox.4 H302; STOT RE2 H373	50-90

See section 16 for full text of H statements.

4. First aid measures

4.1 Description of first aid measures

Eye contact: Flush with clean water for at least 15 minutes. Seek medical advice.

Skin contact: Remove at once all contaminated clothing. Wash area with soap and water. Seek medical advice if irritation persists.

Ingestion: DO NOT induce vomiting. Give plenty of water to drink and seek immediate medical attention. In case of ingestion of significant quantities (100ml) consider early administration of ethanol to counter toxic effects.

Inhalation: Remove from exposure. Get medical attention if any symptoms persist.

4.2 Most important symptoms and effects both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Alcohol resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable agents:

5.2 Special hazards arising from the substance or mixture

Oxides of carbon and other irritant/toxic fumes may be produced.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing. Keep containers cool with water spray.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

6.2 Environmental precautions

Significant spillage or uncontrolled discharge into watercourses must be notified immediately to the appropriate regulatory authority.

6.3 Methods and material for containment and cleaning up

Small spillages may be rinsed away with plenty of water. Larger spillages should be contained and absorbed in inert material. Transfer to closed container for disposal. Flush area with water.

6.4 Reference to other sections

See section 8 for protective clothing

See section 7 for safe handling

See section 13 for disposal.

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7. Handling and storage

7.1 Precautions for safe handling

Ensure adequate ventilation. Avoid contact with eyes and skin.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container, tightly closed. Keep away from heat and sources of ignition.

7.3 Specific end use

See section 1.2.

8. Exposure controls/personal protection

8.1 Control parameters

Substances assigned Workplace Exposure Limits

Name	type	Long term (8hrTWA)		Short term (15mins)	
1,2-Ethanediol (vapour)	WEL	52mg/m ³ (sk)	20ppm(sk)	104mg/m ³ (sk)	40ppm(sk)
1,2-Ethanediol (particulate)	WEL	10mg/m ³ (sk)			

(sk) = may be absorbed through skin.

8.2 Exposure controls

Wear butyl rubber or PVC gloves if skin contact is unavoidable. Wear eye protection to prevent liquid splashes if necessary. Avoid inhalation of spray mist.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Clear liquid

Odour: Slight, sweet

Solubility: Completely soluble in water.

pH(1% solution): N/A

Boiling point/range: Initial boiling point 198°C

Oxidising: No

9.2 Other information

10. Stability and reactivity

10.1 Reactivity

Not reactive under normal conditions.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

Moist air.

10.5 Incompatible materials

Strong acids and alkalis, oxidising substances.

10.6 Hazardous decomposition products

Oxides of carbon and other fumes may be produced on thermal decomposition/combustion.

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11. Toxicological information

11.1 Information on toxicological effects.

Eyes: Irritation, redness and watering.

Skin: Prolonged or repeated contact may cause irritation and dryness.

Ingestion: Upset stomach, nausea, headache, dizziness and intoxication. Harmful if swallowed.

Inhalation: Irritation to the respiratory system. Vapours may be anaesthetic in high concentrations.

Acute toxicity of ingredients: 1,2-Ethandiol LD50 average lethal dose to humans 100ml; LC50 3.95mg/l, (7hrs, aerosol, rat).

12. Ecological information

12.1 Toxicity

Ecotoxicity of ingredients: 1,2-Ethandiol LC50 18000-46000mg/l (Fish, 96hrs).

12.2 Persistence and degradability

Easily biodegradable.

12.3 Bioaccumulative potential

Low bioaccumulative potential.

12.4 Mobility in soil

Water soluble product.

12.5 Results of PBT and vPvB assessment

Does not contain any ingredients identified as PBT or vPvB substances.

12.6 Other adverse effects

13. Disposal considerations

13.1 Waste treatment methods

Comply with local regulations. Do not allow concentrate to enter water systems.

14. Transport information

14.1 UN Number

Not classified as hazardous for transport.

14.2 UN Proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

None

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

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16. Other information

This safety data sheet has been prepared according to EU Commission Regulation 453/2010

The information supplied in this document is based on our present state of knowledge and is given in good faith. It is not intended and should not be construed as a specification or guarantee of specific properties. The responsibility remains with the user to comply with all relevant laws, regulations and directives, to make their own assessment of workplace risks and to determine the suitability of the product for a particular use or application.

The hazards information in this data sheet refers to the material as supplied and not to any subsequent dilution or mixture. The full text of the H statements referred to in section 3 are shown below. These classifications apply to the ingredients, in their concentrated form, which contribute to the classification of the product or mixture.

H302: Harmful if swallowed

H373: May cause damage to organs (kidneys, liver) through prolonged or repeated exposure if swallowed.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Goods by Road
CAS	Chemical Abstracts Service
CHIP	Chemicals (Hazard Information and Packaging) Regulations – Directives 1999/45/EC and 67/548/EC
CLP	Classification and Labelling of Chemicals – Regulation (EC) No. 1272/2008
CMR	Carcinogenic-mutagenic-toxic for reproduction
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
RID	Convention concerning International Carriage by Rail
WEL	Workplace Exposure Limit
VOC	Volatile Organic Compound