

SDS PRO-COOL-GB
Issue 1, Version 3, Revised 21 October 2016

Pro-Cool

SECTION 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier

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1.2 Relevant identified uses of the mixture and uses advised against

Liquid Ice Machine Cleaner

Uses advised against: Any applications other than those specified above.

1.3 Details of the supplier of the safety data sheet

DiversiTech UK Limited
Glaisdale Drive East
Nottingham
NG8 4LY
United Kingdom
Tel: +44 1159005858
Fax: +44 1159294468

1.4 Emergency telephone number

Emergency tel: 001 +1813 248 0585 24 Hours, 7 Emergency Days, Chem-Tel, Inc.

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

GHS Classification:

Skin Irritation Category 1B
Eye Irritation Category 1
Corrosive to metals Category 1

2.2 Label Elements:



Signal Word Danger!

Hazard Statement(s)

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H290 May be corrosive to metals.

Precautionary statement(s)

P102 Keep out of reach of children.
P103 Read label before use.
P234 Keep only in original container.
P260 Do not breathe mist or spray.
P264 Wash thoroughly after handling.
P280 Wear rubber, nitrile or neoprene protective gloves and clothing, and safety goggles or face shield to protect eyes and face.
P310 Immediately call your national POISON CENTRE information service or a doctor.
P301 + 330 + 331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + 361 + 353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P363 Wash contaminated clothing before reuse.
P304 + 340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305 + 351 + 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P390 Absorb spillage to prevent material damage.
P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner such as plastic container.
P501 Dispose of contents and container in accordance with international and local regulations.

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SECTION 2. HAZARDS IDENTIFICATION (cont.)

2.3 Other Hazards:

Workplace exposure limit: This product does not have a workplace exposure limit.

PBT: This product does not contain substances identified as PBT or vPvB.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

INGREDIENT	CAS No.	EINECS No.	% Or Range	GHS Classification
Phosphoric acid	7664-38-2	231-633-2	<30	H314: Causes severe skin burns and eye damage Category 1B
Sulphamic acid	5329-14-6	226-218-8	<10	H315: Causes skin irri. Category 2 H319: Causes serious eye irritation Category 2A H412: Harmful to aquatic life with long lasting effects Category 3

3.2 Mixtures

No further information

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

Skin Contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. If irritation develops or persists, get medical attention.

Eye Contact: Bathe the eye with running water for 15 minutes. Lift eyelids while flushing to ensure all areas of the eye and eyelid are flushed Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Call your national poison information service or doctor for medical advice.

Inhalation: Allow the affected individual to rest in well-ventilated area. Seek medical attention if breathing distress continues.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns. Prolonged or repeated contact may cause defatting and drying of skin. If ingested, nausea and stomach pain may occur. There may be vomiting and diarrhea. May cause gastric distress. If inhaled, there may be irritation of the throat with a feeling of tightness in the chest. May experience difficulty breathing.

4.3 Indication of any immediate attention and special treatment needed

If the product makes contact with the eye and skin immediate treatment is required. If the product is ingested immediate medical attention is required.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Do not use water.

5.2 Special hazards arising from the substance or mixture

Can react with certain metals, such as aluminum, to generate flammable hydrogen gas. May cause fire and explosions when in contact with incompatible materials. Adding water to caustic solution generates large amounts of heat.

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove contaminated clothing immediately. Cleanup personnel must be equipped with personal protective gear. Ensure adequate ventilation. Keep unnecessary and unprotected people away from area of spill.

6.2 Environmental precautions

Dispose of neutralised waste material in a hazardous waste facility.

6.3 Methods and material for containment and cleaning up

Neutralise with sodium bicarbonate, soda ash, or lime. Pick up neutralised solution with a plastic pump or vacuum truck and store the neutralised solution in a leak-proof polyethylene container until the product can be disposed of in a hazardous waste facility. Flush area twice with water to remove any remaining residues. Store wash solution in polyethylene containers for disposal. Do not use aluminum tools to collect absorbed material or aluminum containers to store collected wastes.

6.4 Reference to other sections

Please refer to Section 8 for details on protective wear.

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SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid direct contact with the substance. Wash hands after handling. Smoking is forbidden. Wash clothing after handling. Ensure there is sufficient ventilation of the area.

7.2 Condition for safe storage, including any incompatibilities

Keep container tightly closed. Do not use aluminum containers. Do not store with magnesium containers. Do not use aluminum tools to collect absorbed material or aluminum containers to store collected wastes. Do not use metal measuring containers for handling this product.

7.3 Specific end use(s)

Liquid Ice Machine Cleaner

Industrial section specific solution: None.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

INGREDIENT	CAS NO.	LT PPM	LT MG/M ³	ST PPM	ST MG/M ³
PHOSPHORIC ACID - 100%	7664-38-2		1 mg/m ³		2 mg/m ³

8.2 Exposure controls

Ensure there is sufficient ventilation of the area.

Eye/Face Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities or a source of running water in the work area.

Skin protection:

Hand protection: Impermeable gloves (nitrile gloves)

Other: Wear impervious and acid-resistant protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate to prevent skin contact.

Respiratory protection: A system of local and/or general exhaust is recommended to keep employee below exposure limit. A half-piece particulate respirator (EN 149) may be worn for up to ten times the exposure limit. Local exhaust ventilation is preferred. A full-face piece particulate respirator may be worn up to 50 times the exposure limit.

Thermal hazards: Not relevant.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Clear liquid
Odor:	Astringent
Odor Threshold:	No data available
pH:	1-2
Melting Point/Freezing Point:	<0 °C
Boiling Point and boiling range:	>100 °C
Flash Point:	Not available
Evaporation Rate (Water = 1):	> 1
Flammable Limits:	Not available
Vapor pressure:	Not available
Vapor Density:	Not available
Solubility:	Miscible in water
Relative Density:	1.095
Partition Coefficient: N-Octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidising properties:	Not available

9.2 Other information

No further details.

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SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react with certain metals, such as aluminum, to generate flammable hydrogen gas.

10.4 Conditions to avoid

Heat. Incompatibles.

10.5 Incompatible materials

Oxidising agents. Strong bases. Metal containers. Magnesium. Aluminum.

10.6 Hazardous decomposition products

Hydrogen gas. Sulphur Dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Acute Toxicity: No data available.

11.1.2 Irritation: Prolonged or repeated contact may cause defatting and drying of skin. Severe irritation of skin and eyes. If ingested, nausea and stomach pain may occur. There may be vomiting and diarrhea. May cause gastric distress. May be fatal if swallowed. If inhaled, there may be irritation of the throat with a feeling of tightness in the chest. May experience difficulty breathing.

11.1.3 Corrosive: Causes burns. In contact with skin, may cause chemical burns. Symptoms may be delayed by 12 hours. Causes severe burns to eyes.

11.1.4 Sensitisation: No data.

11.1.5 Repeated dose toxicity: No data.

11.1.6 Carcinogenicity: No data.

11.1.7 Mutagenicity: No data.

11.1.8 Toxicity for reproduction: No data.

The substance may be toxic to blood, liver, skin, eyes, bone marrow. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

11.1.9 Route of exposure: Skin contact.

11.1.10 Symptoms related to the physical, chemical and toxicological characteristics: Prolonged or repeated contact may cause defatting and drying of skin. If ingested, nausea and stomach pain may occur. There may be vomiting and diarrhea. May cause gastric distress. If inhaled, there may be irritation of the throat with a feeling of tightness in the chest. May experience difficulty breathing.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

Long term degradation products may arise. The products of degradation are less toxic than the product itself.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and VPVB Assessment

This substance is not identified as a PBT substance.

12.6 Other adverse effects

No further details.

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SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations - Treat empty containers as hazardous. Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging - Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Dispose of according to national regulations.

Please follow all local, regional, national and international laws.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number: UN 3264

14.2 UN proper shipping name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (contains phosphoric and sulphamic acids)

14.3 Transport hazard class(es): Class 8

14.4 Packing group: II

14.5 Environmental hazards: Not Environmentally Hazardous Substance or Marine Pollutant.

14.6 Special precautions for user: See section 8

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable to packaged goods

ROAD/RAIL (ADR/RID/CDG)	Transport category 3 Tunnel restriction code E
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SEA (IMDG)	Not Marine Pollutant IMDG Code segregation group ¹ – Acids EmS: F-A S-B
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AIR (ICAO/IATA)	ERG Code 8L
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SECTION 15. REGULATORY INFORMATION

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

The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

15.2 Chemical safety assessment

A chemical safety assessment has not been conducted.

SECTION 16. OTHER INFORMATION

Other information

This safety data sheet is prepared in accordance with Regulation (EC) No 1272/2008 (CLP).

Revision Summary: All Sections: New GHS Format

Abbreviations:

UN Model Regulations means the Model Regulations annexed to the most recently revised edition of the Recommendations on the Transport of Dangerous Goods published by the United Nations.

IMDG Code means the International Maritime Dangerous Goods code, as amended.

ADR means the European Agreement concerning the International Carriage of Dangerous Goods by Road, as amended.

RID means the Regulations concerning the International Carriage of Dangerous Goods by Rail, as amended.

ADN means the European Agreement concerning the International Transport of Dangerous Goods by Inland Waterways, as amended.

Sources Of Key Data:

UK Regulatory References: The Control of Substances Hazardous to Health Regulations 2002 (as amended 2004).

European Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

Approved Code of Practice: Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. British Notes: Workplace Exposure Limits EH40.

Classification and Labelling Guidance: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Annex 2

Precautionary Statement and Pictograms: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Annex 3

Guidance on the Preparation of Safety Data Sheets: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Annex 4

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SECTION 16. OTHER INFORMATION (cont.)

IMPORTANT:

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, SUITABILITY, STABILITY OR OTHERWISE. The information included herein is not intended to be all-inclusive as to the appropriate manner and/or conditions of use, handling and/or storage. Factors pertaining to certain conditions of storage, handling, or use of this product may involve other or additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended to, and nothing herein shall be construed as a recommendation to, infringe any existing patents or violate any laws, rules, regulations or ordinances of any governmental entity.