



SAFETY DATA SHEET PRE-ICER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name PRE-ICER
Product No. TPI501, RPI500, PPI501

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Antifreeze liquid.

1.3. Details of the supplier of the safety data sheet

Supplier TETROSYL LIMITED
BEVIS GREEN WORKS
WALMERSLEY
BURY
BL9 6RE
0161 764 5981
0161 797 5899
info@tetrosyl.com

Manufacturer TETROSYL LIMITED
BEVIS GREEN WORKS
WALMERSLEY
BURY
BL9 6RE
0161 764 5981
0161 797 5899
info@tetrosyl.com

1.4. Emergency telephone number

0161 764 5981

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Eye Irrit. 2 - H319
Environment	Not classified.

Classification (1999/45/EEC) Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Physical and Chemical Hazards

Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

2.2. Label elements

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Label In Accordance With (EC) No. 1272/2008



Signal Word	Warning	
Hazard Statements	H319 Causes serious eye irritation.	
Precautionary Statements	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P280	Wear eye and face protection.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplementary Precautionary Statements	P337+313	If eye irritation persists: Get medical advice/attention.
	P264	Wash contaminated skin thoroughly after handling.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

DIETHANOLAMINE	0.09 - <0.1%	
CAS-No.: 111-42-2	EC No.: 203-868-0	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT RE 2 - H373	Classification (67/548/EEC) Xn;R22,R48/22 Xi;R38,R41	
ETHANEDIOL	10.0 - <20.0%	
CAS-No.: 107-21-1	EC No.: 203-473-3	Registration Number: 01-2119456816-28
Classification (EC 1272/2008) Acute Tox. 4 - H302	Classification (67/548/EEC) Xn;R22	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures**

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General information

Get medical attention if any discomfort continues. General first aid, rest, warmth and fresh air. NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation

Unlikely route of exposure as the product does not contain volatile substances.

Ingestion

Get medical attention if any discomfort continues. Immediately rinse mouth and drink plenty of water (200-300 ml).

Skin contact

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if any discomfort continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Do not rub eye. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure. NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation

No specific symptoms noted.

Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact

Prolonged contact may cause redness, irritation and dry skin.

Eye contact

May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use: Foam, carbon dioxide or dry powder. Water. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

There are no anticipated hazardous decomposition products associated with this material.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

Not relevant

5.3. Advice for firefighters

Special Fire Fighting Procedures

Not relevant

Protective equipment for fire-fighters

Leave danger zone immediately.

PRE-ICER**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

No specific clean-up procedure noted.

6.4. Reference to other sections

Collect and dispose of spillage as indicated in section 13. For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Read and follow manufacturer's recommendations. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid contact with eyes. Avoid eating, drinking and smoking when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Keep upright. Store in tightly closed original container.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
DIETHANOLAMINE	OES	3 ppm	15 mg/m ³			
ETHANEDIOL	WEL	20 ppm	10 mg/m ³	40 ppm	104 mg/m ³	Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash, quick drench.

Engineering measures

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

Respiratory equipment

Respiratory protection not required.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

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Eye protection

Wear approved, tight fitting safety glasses where splashing is probable.

Other Protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Appearance	Light viscous liquid.
Colour	Colourless.
Odour	Characteristic.
Solubility	Soluble in water.
Initial boiling point and boiling range (°C)	>100°C
Melting point (°C)	-25°C
Relative density	1.024g/cm ³ 20°C
Vapour density (air=1)	
Not determined.	
Vapour pressure	
Not determined.	
Evaporation rate	
Not determined.	
pH-Value, Conc. Solution	6.5 - 7.5
Viscosity	200 - 400 cP 20°C
Decomposition temperature (°C)	
Not determined.	
Odour Threshold, Lower	
Not determined.	
Odour Threshold, Upper	
Not determined.	
Flash point (°C)	>100°C
Auto Ignition Temperature (°C)	
Not determined.	
Flammability Limit - Lower(%)	
Not determined.	
Flammability Limit - Upper(%)	
Not determined.	
Partition Coefficient (N-Octanol/Water)	
Not determined.	
Oxidising properties	
Not available.	

9.2. Other information

None.

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No specific reactivity hazards associated with this product.

10.2. Chemical stability

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No particular stability concerns.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

Not relevant

10.5. Incompatible materials

Materials To Avoid

No incompatible groups noted.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Toxic Dose 1 - LD 50

>6000 mg/kg (oral rat)

Acute toxicity:

Ethanediol

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not regarded as dangerous for the environment.

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l >18000

Ethanediol

EC 50, 48 Hrs, Daphnia, mg/l 46300-51100

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not determined.

12.4. Mobility in soil

Adsorption/Desorption Coefficient

Not available.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

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General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Confirm disposal procedures with environmental engineer and local regulations. Wash to drains with lots of water.

SECTION 14: TRANSPORT INFORMATION

General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Transport Labels

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable. Not applicable.

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

PRE-ICER

Revision Date 10/10/2013
Revision 5
Supersedes date 19/10/2012 v4
Safety Data Sheet Status Approved.

Risk Phrases In Full

R22 Harmful if swallowed.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R38 Irritating to skin.
NC Not classified.
R41 Risk of serious damage to eyes.

Hazard Statements In Full

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H302 Harmful if swallowed.
H373 May cause damage to organs <<Organs>> through prolonged or repeated exposure.