



coolenergy

TEMPERATURE RENTAL

COOLFLOW DTX



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CoolFlow DTX ^(Patented)
 Supplier Cool Energy Ltd
 Address ICS House, Stephenson Road, Calmore Industrial Estate,
 Totton, Southampton, SO40 3RY
 Telephone No. 023 8052 7300 Facsimile No. 023 8042 8366
 E-Mail info@icstemp.com

2. COMPOSITION / INFORMATION ON PRODUCT COMPONENTS

Hazardous Components for EC

COMPONENT NAME	CAS no	CONCENTRATION	R PHASES	CLASSIFICATION
i) Mono Ethylene Glycol	107-21-1	80 - 90%	R22	Xn -Harmful if swallowed
ii) Proprietary ADH Enzyme Inhibitor Blend	N/A	10 - 20%	Not Classified	Non-Toxic
iii) Proprietary Corrosion Inhibitor Blend	N/A	2.5 - 7.5%	Not Classified	Non-Toxic

2a. Mono Ethylene Glycol is classed as "Slightly Toxic" in isolation, but when blended with item 2.ii) above it is rendered Non-Toxic and classed as "Relatively Harmless" by the Hodge & Sterner scale of toxicity and based on an LD50 (Oral Rat) of >21,000 mg/kg bw.

3. HAZARD IDENTIFICATION

Main Hazards Not classified as a hazard or environmental hazard under current legislation

4. FIRST AID MEASURES

Health effects - Eyes Wash eyes promptly and rinse for 15 minutes. Get medical attention.
 Health effects - Skin Remove affected person from source of contamination. Wash skin with soap or mild detergent.
 Health effects - Ingestion Get medical attention. Rinse mouth thoroughly. DO NOT induce vomiting.
 First Aid - Inhalation Remove person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media Alcohol resistant foam. Carbon Dioxide (CO2). Dry chemicals, sand and dolomite etc
 Special Hazards of Product Acrid smoke/fumes. Carbonyl compounds. Acetic acid.
 Protective equipment for fire fighting. Wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions No special precautions necessary.
 Environmental Precautions Prevent the material from entering drains or water courses without pre-treatment.
 Spillage's Clean with absorbent material and dispose.

7. HANDLING AND STORAGE

Handling No special measures necessary.
 Protect against fire and explosion. Take precautionary measures against static discharge.
 Storage Containers should be : tightly sealed and dry. Can be made from stainless steel. Do not use zinc.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Control Measures Engineering methods to prevent or control exposure are preferred.
 Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.
 Respiratory Protection Respiratory protection if there is a risk of exposure to high vapour concentrations.
 Hand Protection PVC gloves
 Eye Protection Chemical goggles or face shield must be worn.
 Body protection Wear overall or apron.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Colour	Blue Clear.
Odour	Almost odourless
pH at 500g/l, 20°C	Range between 7.5 - 9.5
Density (g/cm ³)	1.04 - 1.10 depending on inhibitors and additives.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames sparks.
Materials to Avoid	Powerful oxidising agents
Hazardous Decomposition Products	None provided product is correctly processed.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	LD 50/oral/rat:>20000 mg/kg
Irritancy - Eyes	This material is irritating to mucous membrane/eyes.
Irritancy - Skin	This material is non-irritant (Draize test) to the skin.

12. ECOLOGICAL INFORMATION

Mobility	The product will dissolve rapidly in water.
Ecotoxicity	The product is rated as : Algae EC50 (72h):>100mg/l. Fish : LC50 (96h):.100mg/l, Oncorhynchus mykiss Bacteria: >1000 mg/l Daphnids (acute) EC50 (48h):>100mg/l

13. DISPOSAL

Product Disposal	Dump according to local regulations use EWC-no:070104
Container Disposal	Containers should be cleaned by appropriate methods and then re-used or disposed in same manner as contents.

14. TRANSPORT INFORMATION

UN Number	n/a
UN Class	n/a
UN Packaging Group	n/a
ADR/RID Substance ID No.	n/a
ADR/RID - Class	n/a

15. REGULATORY INFORMATION

Labeling Information	According to EEC directives - not subject to labelling
R Phases	n/a
S Phrases	n/a
EC Annex I Classification	n/a

16. OTHER INFORMATION

MSDS first issued	31-Oct-09
MSDS data revised	02-Feb-10
Footnote	

The above information is believed to be accurate. The sole purpose of the datasheet is to provide guidance on the safehandling and use of the respective product. It does not form part of any product specification or contract. It is not practical for the information to cover every conceivable application of the product. It is the responsibility of the user to evaluate the information for their own particular purpose. In no event shall the company beheld liable for any injury, loss or damage resulting from its use.