



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Thermox DTX ^(Patented)
Manufacturer / Supplier	Hydra Technologies Ltd.
Address	Units 5, Europa Way, Fforestfach, Swansea, SA5 4AJ
Telephone No.	01792 586800
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E-Mail	sales@coolflow.co.uk

2. COMPOSITION / INFORMATION ON PRODUCT COMPONENTS

Hazardous Components for EC

COMPONENT NAME	CAS no	CONCENTRATION	R PHASES	CLASSIFICATION
i) Mono Ethylene Glycol	I07-2I-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	Seek 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 (CO ₂). 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.
Storage	Protect against fire and explosion. Take precautionary measures against static discharge. Containers should be : tightly sealed and dry. Can be made from stainless steel. No Zinc.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

See section 7

Engineering Control Measures	Engineering control 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 7.0 - 9.5
Density (g/cm ³)	1.04 - 1.14 depending on inhibitor blends

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:>21,000 mg/kg body weight.
Irritancy - Eyes	This material is mildly 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. I.E. it is 100% miscible.
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	15-Jan-10
MSDS data revised	
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.