

MATERIAL SAFETY DATA SHEET

Revised – 11/02/2011

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Commercial Name: MAXR – 100
Refrigeration anti-fouling compound

Manufactured for: Trans Bio Energy Company LLC
Address: 201 N. Cleveland Massillon Road,
Akron
Ohio 44333
USA

Telephone: +1 330 665 3839
Emergency: +1 757 436 9266

2. COMPOSITION / INFORMATION ON INGREDIENTS

3. HAZARDS IDENTIFICATION

Health: Can cause some transient irritation and burning sensation to eyes and skin.

Environment: Regulations forbid the disposal of lubricants into the environment without special permit.

Physiochemical hazards: No particular risk of ignition or explosion.

Specific risks: None.

4. FIRST AID MEASURES

Inhalation: Not concerned.

Skin contact: Wash with detergent and water.

Eye splashes: Flush with generous amounts of temperate water for a minimum of 15 minutes. Seek medical help if the problem remains.

Ingestion: Drink water. Do not induce vomiting. Seek medical help.

5. FIRE-FIGHTING MEASURES

Recommended to use: CO₂, dry powder, foam.

Not recommended to use: Water in a jet.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: None necessary in ventilated environments.

Environment protection: Avoid pollution of sewers and water.

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Cleaning means: For easy removal, use inert absorbent or sand.

7. HANDLING AND STORAGE

Handling

General: Avoid exposure to temperatures $<+5$ and $>+40^{\circ}\text{C}$
Personal protection: Avoid prolonged contact with skin. Remove soaked clothes.

Storage

Recommended conditions: Storage temperature $+10$ to $+40^{\circ}\text{C}$. Store in closed container, preferably as delivered and separated from strong acids. Storage stability is at least one year.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures: Exposure should be minimised with technical measures rather than personal protective clothing

Personal protective equipment:

Respiratory protection: None normally needed.

Hand protection: Impermeable gloves recommended (e.g. PVC or rubber)

Eye protection: Safety goggles recommended.

Others: Site protective clothing recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Transparent low viscosity fluid
Specific gravity	0.993
pH	7 – 7.5
Vapour pressure: mm Hg 1	
Pour point – ASTM D97	-15°C
Vapour density:	1
Floc point ASHRAE 86:	-60°C
Solubility in water:	Insoluble
Copper corrosion – ASTM D92	1A
Appearance and odour:	Wheat; mild oily odour
Fire point: COC	157°C

10. STABILITY AND REACTIVITY

Stability: Stable product under normal conditions.

Incompatibility: Strong oxidising and reducing agents

Hazardous reactions or by-products: When burning, may form carbon monoxide.

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11. TOXICOLOGICAL INFORMATION

No tests have been performed on the product.

12. ECOLOGICAL INFORMATION

No tests have been performed on the product.

13. DISPOSAL CONSIDERATIONS

Used product: As per existing national regulations.
Used packaging: As per existing national regulations.

14. TRANSPORT INFORMATION

The product is not classified as dangerous goods.

16. OTHER INFORMATION

MaxR -100 is a fouling inhibitor and increases refrigerant side heat transfer efficiency in air-conditioning and refrigeration systems.

Symbols:	Xi	-	Irritating.
Risk phrases:	R 38	-	Irritating to skin.
	R 41	-	Risk of serious damage to eyes.
	R 52/53	-	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases:	S 24.25	-	Avoid contact with skin and eyes.
	S 26	-	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S 37/39	-	Wear suitable gloves and eye/face protection

16. OTHER INFORMATION