

MATERIAL SAFETY DATA SHEET- FREEZBREAKER LT

Kamco Limited

Unit 9, Curo Park, Frogmore, St Albans, AL2 2DD.

Tel: 01727 875020 Fax: 01727 875335

email: info@kamco.co.uk

1. Product name / description:

FREEZBREAKER LT antifreeze additive
for cooling and heating systems.

2. Composition / information on ingredients:

Blend of monopropylene glycol, corrosion inhibitors and blue colouration.

CAS no.: 107-98-2.

3. Hazards identification:

Low risk material

4. FIRST AID MEASURES:

Inhalation: Remove from exposure. Seek medical attention if unwell.

Skin contact: Wash off with soap and water.

Eye contact: Immediately wash the eye with plenty of water for at least 20 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Ingestion: Wash out mouth with water. **DO NOT INDUCE VOMITING.**

5. Fire fighting measures:

Fire fighting procedures: Material is not classified as flammable, but can burn. Extinguish fires with dry chemical, water spray, water fog, foam or carbon dioxide. Fire fighters should wear self contained breathing apparatus, protective clothing, gloves, boots and eye protection.

Special hazards: Keep containers cool with water spray.

Hazardous combustion products: None known.

6. Accidental release measures:

Personal precautions: Evacuate area. Wear appropriate protective clothing. Material can create slippery conditions underfoot.

Environmental precautions: In the event of a large spillage, prevent the liquid from entering drains, ditches and rivers by the use of sand or earth. Inform authorities if this cannot be prevented.

Methods of cleaning: Absorb spillages in sand or earth and collect for disposal. Transfer the liquid to a salvage tank if possible, otherwise treat as for small spillage. When all spillages are cleared, flush the contaminated area liberally with water.

7. Handling & storage:

Handling: Avoid breathing mist or vapour from heated material.

Storage: Store in tightly closed containers away from heat, moisture, and strong oxidising agents.

8. Exposure controls / personal protection:

Exposure limits: OES (8hr TWA) : 150ppm (470 mg/m³)

Respiratory protection: None normally required.

Hand protection: Use protective gloves made of PVC or butyl rubber.

Skin protection: Wear protective apron/overalls, and boots.

Eye protection: Wear safety goggles or face shield.

9. Physical & chemical properties:

- Appearance: Clear blue liquid.
- Odour: Virtually odourless.
- pH of 50% solution ca. 7.
- Specific gravity @ 15.5°C: 1.05.
- Flash point (closed cup): 110°C.

10. Stability & reactivity:

Stability: Stable under normal conditions.

Materials to avoid: Strong oxidising materials.

Conditions to avoid: Material is hygroscopic - keep containers tightly closed.

Decomposition products: Smoke, carbon monoxide and or carbon dioxide.

11. Toxicological information:

Toxicological data: LD₅₀ (oral rat): 20,000 mg/kg.

Inhalation: Not thought likely to occur under normal working conditions.

Skin contact: May cause very slight skin irritation.

Eye contact: May cause minor eye irritation.

Ingestion: Low order of acute toxicity.

12. Ecological information:

Degradability: Inherently biodegradable. BOD 28 = 87-92% of ThOD.

Environmental hazard: The product is involatile and water soluble and will partition to the aqueous phase. It will infiltrate soil and contaminate water. Dissolves rapidly in water.

13. Disposal considerations:**14. Transport information:**

Low hazard product. No hazard classification needed.

15. Regulatory information:

Classification: Low risk product.

- RISK PHRASES:
R36 Irritating to eyes.
- SAFETY PHRASES:
None required.

16. Other information: Normal use:

As an antifreeze additive for heating and cooling systems.

CLP Regulations**Prevention:**

- P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- P233: Keep container tightly closed.
- P240: Ground/bond container and receiving equipment.
- P241: Use explosion-proof electrical/ventilating/lighting/equipment.
- P242: Use only non-sparking tools.
- P243: Take precautionary measures against static discharge.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370+P378: In case of fire: Use dry chemical, water spray, water fog, foam or carbon dioxide for extinction.

Storage:

- P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:

- P501: Dispose of contents by flushing away with water and neutralising with alkali to neutral pH. For large quantities, seek advice from specialist waste disposal company.

Legal disclaimer: The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

Date: 29/11/10.