



**SAFETY DATA SHEET**  
AIR BRAKE ANTIFREEZE

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Issued: 30/03/2004

Revision No: 10

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

**Product name:** AIR BRAKE ANTIFREEZE  
**Product code:** ABA5L  
**Company name:** Comma Oil & Chemicals Ltd.  
Dering Way  
Gravesend  
Kent  
DA12 2QX  
Tel: +44 01474 564311  
Fax: +44 01474 333000

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

**Hazardous ingredients:** PROPAN-2-OL >90%  
EINECS: 200-661-7 CAS: 67-63-0  
[F] R11; [Xi] R36; [-] R67

**Contains:** Hazardous ingredients present at or above regulatory disclosure limits

**3. HAZARDS IDENTIFICATION**

**Main hazards:** Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.  
**Other hazards:** In use, may form flammable / explosive vapour-air mixture.

**4. FIRST AID MEASURES (SYMPTOMS)**

**Skin contact:** There may be irritation and redness at the site of contact.  
**Eye contact:** There may be irritation and redness. The eyes may water profusely.  
**Ingestion:** There may be soreness and redness of the mouth and throat.  
**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**4. FIRST AID MEASURES (ACTION)**

**Skin contact:** Wash immediately with plenty of soap and water.  
**Eye contact:** Bathe the eye with running water for 15 minutes.  
**Ingestion:** Wash out mouth with water.  
**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.  
**Exposure hazards:** Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

[cont...]

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**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

**7. HANDLING AND STORAGE**

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Ensure lighting and electrical equipment are not a source of ignition.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Hazardous ingredients:** PROPAN-2-OL  
TWA (8 hr exposure limit): 999 mg/m<sup>3</sup> STEL (15 min exposure limit): 1250 mg/m<sup>3</sup> (OES)

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses.

**Skin protection:** Protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Colourless

**Odour:** Alcoholic

**Evaporation rate:** Moderate

**Solubility in water:** Soluble

**Also soluble in:** Most organic solvents.

**Boiling point/range°C:** Approx 83

**Flash point°C:** 13

**Relative density:** 0.788 @ 20 C

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**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions. Stable at room temperature.

**Conditions to avoid:** Heat. Hot surfaces. Sources of ignition. Flames.

**Materials to avoid:** Strong oxidising agents. Strong acids.

**Haz. decomp. products:** In combustion emits toxic fumes.

**11. TOXICOLOGICAL INFORMATION**

**Hazardous ingredients:** PROPAN-2-OL  
 IVN RAT LD50 1088 mg/kg  
 ORL MUS LD50 3600 mg/kg  
 ORL RAT LD50 5045 mg/kg  
 SCU MUS LDLO 6 gm/kg

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

**12. ECOLOGICAL INFORMATION**

**Mobility:** Readily absorbed into soil.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal of packaging:** Dispose of as normal industrial waste.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORT INFORMATION**

**ADR / RID**

<b>UN no:</b> 1993	<b>ADR Class:</b> 3
<b>Packing group:</b> II	<b>Classification code:</b> F1
<b>Shipping name:</b> FLAMMABLE LIQUID, N.O.S. (PROPAN-2-OL)	
<b>Labelling:</b> 3	<b>Hazard ID no:</b> 33



**IMDG / IMO**

<b>UN no:</b> 1993	<b>Class:</b> 3
<b>Packing group:</b> II	<b>EmS:</b> F-E,S-E

**SAFETY DATA SHEET**

AIR BRAKE ANTIFREEZE

Marine pollutant: .

Labelling: 3

**IATA / ICAO**

UN no: 1993

Class: 3

Packing group: II

Packing instructions: 305(P&amp;CA); 307(CAO)

Labelling: 3

**15. REGULATORY INFORMATION****Hazard symbols:** Highly flammable.

Irritant.

**Risk phrases:** R11: Highly flammable.

R36: Irritating to eyes.

R67: Vapours may cause drowsiness and dizziness.

**Safety phrases:** S2: Keep out of the reach of children.

S9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S46: If swallowed, seek medical advice immediately and show this container or label.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.**16. OTHER INFORMATION****Risk phrases used in s.2:** R11: Highly flammable.

R36: Irritating to eyes.

R67: Vapours may cause drowsiness and dizziness.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.