# SAFETY DATA SHEET

## 4 Life Advanced Engine Coolant

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name 4 Life Advanced Engine Coolant

Product number 444001B

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Engine Coolant, Anti-Freeze

Uses advised against Use only for intended applications.

#### 1.3. Details of the supplier of the safety data sheet

Supplied

Promapac LLP
Wakefield House
Swavesey
Cambridge
CB24 4QZ
01954 231668 (office hours only)
Fax 01954 231923

www.4lifecoolant.co.uk

Contact person enquiries@4lifecoolant.co.uk

#### 1.4. Emergency telephone number

Emergency telephone 01954 231668 (office hours only)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 STOT RE 2 - H373

Environmental hazards Not Classified

#### 2.2. Label elements

Pictogram

Signal word Warning

Hazard statements
H302 Harmful if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe vapours.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P310 IF SWALLOWED: Immediately call a doctor.
P314 Get medical advice/ attention if you feel unwell.
P330 Rinse mouth.
P501 Dispose of contents/ container in accordance with national regulations.

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Contains Monoethylene Glycol, sodium nitrite

Additional Labelling

Detergent labelling Contains Sodium Benzoate, Borax

2.3. Other hazards

None

## SECTION 3: Composition/information on ingredients *

3.2. Mixtures

| | | | |
|---|---|---|---|
| Monoethylene Glycol<br>CAS number: 107-21-1 | EC number: 203-473-3 | REACH registration number: 012119456816-28-0000 | 30-60% |
| Classification<br>Acute Tox. 4 - H302<br>STOT RE 2 - H373 | Classification (67/548/EEC or 1999/45/EC)<br>Xn; R22 | | |
| Sodium Benzoate<br>CAS number: 532-32-1 | EC number: 208-534-8 | | 1-5% |
| Classification<br>Eye Irrit. 2 - H319<br>Aquatic Chronic 3 - H412 | | | |
| Borax<br>CAS number: 1303-96-4 | EC number: 215-540-4 | | <1% |
| Classification<br>Eye Irrit. 2 - H319<br>Repr. 1B - H360Fd | | | |
| sodium nitrite<br>CAS number: 7632-00-0<br>M factor (Acute) = 1 | EC number: 231-555-9 | REACH registration number: 012119471836-27-0000 | <1% |
| Classification<br>Ox. Sol. 3 - H272<br>Acute Tox. 3 - H301<br>Eye Irrit. 2 - H319<br>Aquatic Acute 1 - H400 | | | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

* Formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld.

## SECTION 4: First aid measures

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## 4.1. Description of first aid measures

| | |
|---|---|
| Inhalation | Remove exposure and give water to drink if mouth irritation experienced. Seek medical advice if recovery not rapid. |
| Ingestion | Get medical attention immediately. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Do not induce vomiting. |
| Skin contact | Wash skin thoroughly with soap and water. Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if irritation persists after washing. |
| Eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists after washing. |

## 4.2. Most important symptoms and effects, both acute and delayed

| | |
|---|---|
| Inhalation | May cause nose, throat, and lung irritation. |
| Ingestion | Harmful if swallowed. Harmful: danger of serious damage to health by prolonged exposure if swallowed. |
| Skin contact | Prolonged skin contact may cause skin irritation. |
| Eye contact | Possible mild irritation, redness and soreness. |

## 4.3. Indication of any immediate medical attention and special treatment needed

| | |
|---|---|
| Notes for the doctor | No data available |
| Specific treatments | No data available. |

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media Use extinguisher suitable to cause of fire.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards Product does not support combustion, minimal fire hazard. Minimal quantities of oxides of carbon may be produced.

### 5.3. Advice for firefighters

Protective actions during Use protection suitable to cause of fire. firefighting

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin and eyes.

### 6.2. Environmental precautions

Environmental precautions Product is intended to be rinsed away to sewer after use. For bigger spillages non-household spillages prevent entry into sewer or drains.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb household spillages with e g. kitchen roll and dispose of in bin. Wipe affected area clean with a damp cloth.

### 6.4. Reference to other sections

Reference to other sections None

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Usage precautions Use as instructed on label. Avoid contact with skin and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in ambient conditions. Keep out of the reach of children.

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7.3. Specific end use(s)

Specific end use(s) Engine Coolant.

## SECTION 8: Exposure Controls/personal protection

8.1. Control parameters Occupational exposure limits

Borax

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³ Inhalation
WEL = Workplace Exposure Limit

Borax (CAS: 1303-96-4)

| | |
|---|---|
| DNEL | Workers - Inhalation; local effects: 22.3 mg/m³<br>Workers - Inhalation; Long term systemic effects: 12.8 mg/m³<br>Workers - Dermal; Long term systemic effects: 42478 mg/day<br>General population - Oral; systemic effects: 1.5 mg/kg<br>General population - Inhalation; systemic effects: 303.5 mg/kg<br>General population - Inhalation; local effects: 22.3 mg/m³<br>General population - Dermal; Long term systemic effects: 1.5 mg/kg<br>General population - Inhalation; Long term systemic effects: 6.5 mg/m³<br>General population - Oral; Long term systemic effects: 1.5 mg/kg<br>General population - Inhalation; Long term local effects: 22.3 mg/m³ |
| PNEC | - Fresh water, Marine water; 1.35 mg B/L<br>- Intermittent release, Water; 9.1 mg B/L<br>- Sediment (Freshwater), Sediment (Marinewater); 1.8 mg B/Kg<br>- Soil; 5.4 mg B/Kg<br>- STP; 1.75 mg B/L |

8.2. Exposure controls

| | |
|---|---|
| Respiratory protection | Use in a well ventilated area. |
| Environmental exposure controls | This product does not pose a hazard in normal use when following the usage instructions. |

## SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Appearance | Clear Dark Red Liquid |
| Colour | Dark red |
| Odour | No characteristic odour. |
| Odour threshold | Not known. |
| pH | pH (concentrated solution): 7.0 - 8.7 |
| Melting point | Not known. |
| Initial boiling point and range | Not measured (>100°C) |
| Flash point | Not determined. |
| Evaporation rate | Not known. |
| Evaporation factor | Not known. |
| Flammability (solid, gas) | Does not ignite. |

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| | |
|---|---|
| Upper/lower flammability or explosive limits | Does not ignite. |
| Other flammability | Not relevant. |
| Vapour pressure | Not determined. |
| Vapour density | > 1 (Air=1) |
| Relative density | 1.04 - 1.08 @ 20°C |
| Bulk density | Not relevant. |
| Solubility(ies) | Soluble in water |
| Partition coefficient | Not known. |
| Auto-ignition temperature | Not known. |
| Decomposition Temperature | Not available. |
| Viscosity | Not determined. |
| Explosive properties | None |
| Explosive under the influence of a flame | Not considered to be explosive. |
| Oxidising properties | Not applicable. |

9.2. Other information

| | |
|---|---|
| Other information | None. |
| Refractive index | 26.0 - 27.1 |

## SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|---|---|
| Reactivity | No reactivity hazards expected. |

10.2. Chemical stability

| | |
|---|---|
| Stability | Stable under normal conditions. |

10.3. Possibility of hazardous reactions

| | |
|---|---|
| Possibility of hazardous reactions | None under normal conditions. |

10.4. Conditions to avoid

| | |
|---|---|
| Conditions to avoid | None known. |

10.5. Incompatible materials

| | |
|---|---|
| Materials to avoid | None known. |

10.6. Hazardous decomposition products

Hazardous decomposition Carbon oxides. products

## SECTION 11: Toxicological information

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11.1. Information on toxicological effects

| | |
|---|---|
| Toxicological effects | Prolonged and repeated contact with product over a long period may lead to permanent health problems. |

Acute toxicity - oral

| | |
|---|---|
| ATE oral (mg/kg) | 1,323.99 |

## SECTION 12: Ecological Information

| | |
|---|---|
| Ecotoxicity | The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met. |

12.1. Toxicity

| | |
|---|---|
| Toxicity | The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met. |

12.2. Persistence and degradability

| | |
|---|---|
| Persistence and degradability | Contains detergents that satisfy the bio-degradation requirements of directive 648/2004/EC. |

12.3. Bioaccumulative potential

| | |
|---|---|
| Bioaccumulative potential | Bioaccumulation is not expected. |
| Partition coefficient | Not known. |

12.4. Mobility in soil

| | |
|---|---|
| Mobility | The components of the mixture are readily absorbed into soil and are mobile in water environment. |

12.5. Results of PBT and vPvB assessment

| | |
|---|---|
| Results of PBT and vPvB assessment | No data available. |

12.6. Other adverse effects

| | |
|---|---|
| Other adverse effects | Not available. |

## SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|---|---|
| General information | Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment. Dispose of contaminated packaging in the same way as the product itself. Noncontaminated packages may be recycled. |

## SECTION 14: Transport information

| | |
|---|---|
| General | Not regulated. |

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not regulated.

14.4. Packing group

Not applicable.

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14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation: This safety data sheet is compliant with EC Regulation 1907/2006 (REACH) as adapted by 453/2010, Directive 67/548/EEC and EC Regulation 1272/2008 (CLP).
Dangerous Preparations Directive 1999/45/EC.
Regulation (EC) No. 648/2004 of the European Parliament and of the Council of 31st March 2004 on detergents.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet: DNEL: Derived No Effect Level.
PBT: Persistent, Bioaccumulative and Toxic substance.
ATE: Acute Toxicity Estimate.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. vPvB: Very Persistent and Very Bioaccumulative.
CAS: Chemical Abstracts Service.

General information: Note: The hazard statements below are explanations of phrases used in the SDS as abbreviations and DO NOT apply to the product. The statements applicable to the product are those identified in Section 2 only.

Revision comments: This is first issue.

Issued by: The London Oil Refining Company Ltd

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SDS number: 5061

Risk phrases in full: R8 Contact with combustible material may cause fire.
R22 Harmful if swallowed.
R25 Toxic if swallowed.
R50 Very toxic to aquatic organisms.

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| | |
|---|---|
| Hazard statements in full | H272 May intensify fire; oxidiser.<br>H301 Toxic if swallowed.<br>H302 Harmful if swallowed.<br>H319 Causes serious eye irritation.<br>H360Fd May damage fertility. Suspected of damaging the unborn child.<br>H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure.<br>H373 May cause damage to organs through prolonged or repeated exposure.<br>H400 Very toxic to aquatic life.<br>H412 Harmful to aquatic life with long lasting effects. |