



Product Name: EXTENDED LIFE COOLANT

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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| Supplier Name | TRU-BLU OIL AUSTRALIA PTY LTD |
| Address | 6 Dunlop Court , Bayswater , Victoria, AUSTRALIA, 3153 |
| Telephone | (03) 9720 4400 |
| Fax | (03) 9720 5821 |
| Emergency | 0412 609 722 |
| Email | technical@trubluoil.com.au |
| Web Site | http://www.trubluoil.com.au/ |
| Synonym(s) | EXTENDED LIFE COOLANT CONCENTRATE • TRU BLU NO BOIL COOLANT CONCENTRATE • TRU BLU NO BOIL COOLANT CONCENTRATE • TRU BLU 50/50 PREMIX |
| Use(s) | AUTOMOTIVE APPLICATIONS • CONCENTRATE • ENGINE COOLANT |
| SDS Date | 9th July 2020 |

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA

RISK PHRASES

R22 Harmful if swallowed.

SAFETY PHRASES

S2 Keep out of reach of children.

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

| | |
|---------------------------|----------------|
| UN No. | None Allocated |
| DG Class | None Allocated |
| Subsidiary Risk(s) | None Allocated |
| Packing Group | None Allocated |
| Hazchem Code | None Allocated |

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient | Formula | CAS No. | Content |
|------------------------|---------------------------|----------------|----------------|
| ETHYLENE GLYCOL | C2-H6-O2 | 107-21-1 | >60% |
| CORROSION INHIBITOR(S) | Not Available | Not Available | <10% |
| ANTI-FOAM | Not Available | Not Available | <1% |
| BITREX | C21-H29-N2- O.C7-H5-O2 | 3734-33-6 | <1% |
| DYE(S) | Not Available | Not Available | <1% |

4. FIRST AID MEASURES

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| Eye | If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes. |
| Inhalation | If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air- line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing |
| Skin | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor. |
| Ingestion | For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). |
| Advice to Doctor | Treat symptomatically. |

5. FIRE FIGHTING MEASURES

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| Flammability | Combustible. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Vapour may form explosive mixtures with air. |
| Fire and Explosion | Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas. |
| Extinguishing | Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways. |
| Hazchem Code | None Allocated |

6. ACCIDENTAL RELEASE MESAURES

Spillage Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Prevent spill entering drains or waterways.

7. STORAGE AND HANDLING

Storage Store in a cool, dry, well ventilated area, removed from oxidising agents, acids, phosphorus pentasulphide, sodium hydroxide, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Store as a Class C1 Combustible Liquid (AS1940)

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Stds

| Ingredient | Reference | TWA | | STEL | |
|--------------------------|-----------|--------|----------------------|--------|-----------------------|
| Ethylene glycol (vapour) | SWA (AUS) | 20 ppm | 52 mg/m ³ | 40 ppm | 104 mg/m ³ |

Biological Limits No biological limit allocated.

Engineering Controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE Wear splash-proof goggles, neoprene or butyl or rubber gloves and coveralls. Where an inhalation risk exists, wear: a Type A (Organic vapour) respirator. If spraying, wear: a Type A-Class P1 (Organic gases/vapours and Particulate) respirator



9. PHYSICAL AND CHEMICAL PROPERTIES

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|-------------------------|--------------------------|------------------------------|--------------------------|
| Appearance | CLEAR TO HAZY RED LIQUID | Solubility (water) | SOLUBLE |
| Odour | SLIGHT ODOUR | Specific Gravity | 1.105 - 1.115 |
| pH | 8.0 - 9.7 | % Volatiles | NOT AVAILABLE |
| Vapour Pressure | NOT AVAILABLE | Flammability | CLASS C1 COMBUSTIBLE |
| Vapour Density | NOT AVAILABLE | Flash Point | 60.5°C to 150°C |
| Boiling Point | NOT AVAILABLE | Upper Explosion Limit | 15.3 % (Ethylene glycol) |
| Melting Point | NOT AVAILABLE | Lower Explosion Limit | 3.2 % (Ethylene glycol) |
| Evaporation Rate | NOT AVAILABLE | | |

10. STABILITY AND REACTIVITY

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| Chemical Stability | Stable under recommended conditions of storage. |
| Conditions to Avoid | Avoid shock, friction, heavy impact, heat, sparks, open flames and other ignition sources. |
| Material to Avoid | Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), alkalis (eg. hydroxides), and phosphorus pentasulphide. |
| Hazardous Decomposition Products | May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. |
| Hazardous Reactions | Polymerization is not expected to occur. |

11. TOXICOLOGICAL INFORMATION

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| Health Hazard Summary | Moderate toxicity. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. At room temperature ethylene glycol has a low vapour pressure and therefore an inhalation hazard is not anticipated unless heated or sprayed. Chronic exposure may result in kidney and central nervous system (CNS) damage. |
| Eye | Low to moderate irritant. Contact may result in irritation, lacrimation, pain and redness. |
| Inhalation | Low irritant. Over exposure may result in mild respiratory irritation. High level exposure may result in headache, nausea, dizziness and central nervous system (CNS) depression. Due to the low vapour pressure, an inhalation hazard is not anticipated with normal use. |

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| Skin | Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis. |
| Ingestion | Moderate toxicity. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, drowsiness and unconsciousness. Chronic exposure may result in kidney damage. Aspiration may result in chemical pneumonitis and pulmonary oedema. |
| Toxicity Data | <p>ETHYLENE GLYCOL (107-21-1)</p> <p>LC50 (Inhalation): 10 876 mg/kg (rat)</p> <p>LD50 (Ingestion): 1650 mg/kg (cat)</p> <p>LD50 (Skin): 9530 ug/kg (rabbit)</p> <p>LDLo (Ingestion): 398 mg/kg (human)</p> <p>TCLo (Inhalation): 10,000 mg/m³ (human - cough)</p> <p>TDLo (Ingestion): 5500 mg/kg (child - anaesthesia)</p> <p>BITREX (3734-33-6)</p> <p>LD50 (Ingestion): 508 mg/kg (rabbit)</p> |

12. ECOLOGICAL INFORMATION

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| Environment | Ethylene glycol will mainly exist in the vapour phase in the ambient atmosphere where it will be degraded by reaction with hydroxyl radicals. Expected to be very highly mobile in soil. Not anticipated to volatilise from moist soil or water surfaces. Biodegradation in both soil and water is expected to be a major fate process for this compound. Not expected to bioconcentrate in aquatic organisms. |
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13. DISPOSAL CONSIDERATIONS

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| Waste Disposal | Dispose of by controlled incineration, by licensed or competent personnel. Contact the manufacturer for additional information. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result. |
| Legislation | Dispose of in accordance with relevant local legislation. |

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

| | | | |
|----------------------|----------------|---------------------------|----------------|
| Shipping Name | None Allocated | DG Class | None Allocated |
| UN No. | None Allocated | Hazchem Code | None Allocated |
| Packing Group | None Allocated | Subsidiary Risk(s) | None Allocated |

15. REGULATORY INFORMATION

Poison Schedule Classified as a Schedule 6 (S6) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

ETHYLENE GLYCOL: Has been reported to cause teratogenic and mutagenic effects, however the doses recorded for these effects are extremely high. For example experimental rat studies by the oral route have shown that ingestion of 8.5 g/kg by pregnant rats in their 6-15 day of gestation caused teratogenic effects. This equates to the ingestion of 500 ml of ethylene glycol by a 60 kg women for similar effects to occur. Exposure at such levels is not reported in industry.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

STORAGE OF COMBUSTIBLE LIQUIDS. Combustible liquids with a flash point between 61°C and 150°C are required to be stored as for flammable liquids (Dangerous Goods Class 3) under AS 1940. [Refer to Australian Standard 1940, Storage and Handling of Flammable and Combustible Liquids, for full storage guidelines].

ABBREVIATIONS:

ACGIH - American Conference of Industrial Hygienists.

ADG - Australian Dangerous Goods.

BEI - Biological Exposure Indices(s).

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EC No - European Community Number.

HSNO - Hazardous Substances and New Organisms.

IARC - International Agency for Research on Cancer.

mg/m³ - Milligrams per Cubic Metre.

NOS - Not Otherwise Specified.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

STEL - Short Term Exposure Limit.

SWA - Safe Work Australia.

TWA - Time Weighted Average.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status

It is based on information concerning the product which has been provided to Tru Blu Oil by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the Tru Blu Oil.

While Tru Blu Oil has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Tru Blu Oil accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

SDS Date: 9th July 2020

End of Report