



MATERIAL SAFETY DATA

Product Name: Tru-Blu Roadranger SAE50

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name TRU-BLU OIL AUSTRALIA PTY LTD
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Use(s) Transmission Fluid
SDS Date 21th November, 2016

2. HAZARDS IDENTIFICATION

Hazard Classification: NON-HAZARDOUS SUBSTANCE NON-DANGEROUS GOODS.
Hazard classification according to criteria of NOHSC.
Dangerous goods classification according to Australian Dangerous Goods Code.

Irritancy of Product: Not classified as an irritant.

Sensitisation of Product: Not known to be a sensitiser.

Teratogenicity: No teratogenic effects known.

Other Information: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and environment on disposal. All used oils should be handled with caution and skin contact avoided as far as possible.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	Content
Mineral Oil	Not required	70 – 100%
Ingredients determined not to be hazardous	Mixture	To 100%
p-Dodecylphenol	Confidential	0 – 4.99%
OTHER INFORMATION:	The petroleum oils in this product contain less than 3% DMSO extract as measured by IP 346 test method.	

4. FIRST AID MEASURES

Health Effects

Swallowed: If a large quantity is ingested seek immediate medical attention. Give water to drink. DO NOT induce vomiting. If vomiting occurs get immediate medical attention due to aspiration into lungs risk.

Eye: Immediately irrigate with copious amounts of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

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Skin: Remove contaminated clothing and wash skin thoroughly with plenty of soap and water. High pressure injection through the skin requires URGENT medical attention for possible incision, irrigation and/or debridement. Contact with molten material will require treatment by a physician for burns (Do not remove material).

Inhaled: Remove victim from exposure to fresh air – avoid becoming a casualty. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage and seek urgent medical aid.

5. FIRE FIGHTING MEASURES

Hazards of Use/Storage: Product is a C2 combustible liquid according to AS 1940. This product is combustible if preheated.

Hazards from Combustion Products: Combustion products may include: oxides of carbon, nitrogen and sulphur, a complex mixture of airborne unidentified organic and inorganic solid and liquid particulates.

Fire-Fighting Recommendations: If safe to do so, remove containers from path of fire. Keep storage tanks, pipelines, containers, fire exposed surfaces, etc. cool with water spray. Avoid spreading liquid and fire by water flooding.

Precaution: Water may cause splattering.

Suitable Extinguishing Media: Use foam, carbon dioxide or dry chemical.

Protective Measures: Fire fighters should wear self-contained breathing apparatus if risk of exposure to products of combustion.

Reactivity: May react with strong oxidising agents.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal: Slippery when spilt. Avoid accidents, clean up immediately.

Clean-Up Procedure:

SMALL SPILLS (20L or less) - Absorb or contain liquid with sand, earth or spill control material. Shovel up using non-sparking tools and place in a sound labelled sealable container for subsequent safe disposal. Place leaking containers in a sound labelled drum. Scrub contaminated surfaces with detergent solution. Retain washings as contaminated waste.
CLEAN-UP PROCEDURES - LARGE SPILLS (Greater than 20L): Transfer to a sound labelled, sealable container for product recovery or safe disposal. Treat residues as for small spills.

Personal Precautions: Extinguish naked *flames*. Remove ignition sources. No smoking. Avoid sparks. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Evacuate the area of non-essential personnel. Shut off leaks, if possible without personal risk. Do not breathe vapours. Ventilate contaminated area thoroughly. Dispose of according to local regulations.

Other Information

Procedures in Cases Of Leakage Or Breakage:

Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing outlined in this MSDS. Cover spill with inert absorbent earth. Use a stiff brush to mix thoroughly. Sweep up and place in a sound labelled disposable container. Scrub contaminated area with detergent and water using a stiff brush. Pick up liquid with additional absorbent material and place in a sound labelled disposable container. Prevent contamination of groundwater or surface water.

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7. STORAGE AND HANDLING

Precautions for Safe Handling:	When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Prevent spillages. Ensure the appropriate personal protective equipment is used when handling this product. Ensure high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking smoking or using the toilet.
Safe Storage Conditions:	Keep containers closed at all times. Store in a cool place out of direct sunlight. Store away from oxidising agents. Check containers regularly for leaks.
Corrosiveness:	Not corrosive.
Storage Regulations:	Store in a well ventilated place away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Refer to AS 1940 – The Storage and Handling of Flammable Liquids, and NOHSC: 1015 – National Standard for Storage and Handling of Workplace Dangerous Goods for further information.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

National Exposure Standards:	No exposure standard has been established for this product. NOHSC Exposure Standard: Oil Mists – Time Weighted Average (TWA) 5 Mg/M 3 Is Recommended.
Other Exposure Information:	Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms; time- weighted average (TWA), peak limitation, or short term exposure limit (STEL).
Engineering Controls:	Maintain concentration below recommended exposure limit. Special ventilation is not normally required. However, in the operation of certain equipment or at elevated temperatures mists or vapour may be generated and localised exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standard or the Manufacturer's recommended exposure standard.
Respiratory Protection:	A respirator is not normally required. Airborne concentrations should be kept at lowest level possible. If vapours, mists or dusts are generated and the recommended exposure limit for the product is exceeded, use appropriate AS/NZS 1715/1716 approved half –face filter respirator suitable for organic vapours or air supplied respirator are worn. Air supplied respirators should always be worn when the airborne concentration of the contaminant or the oxygen content of the air is unknown.
Eye Protection:	Safety glasses, goggles or face shield as appropriate.
Hand Protection:	PVC gloves
Footwear:	Enclosed footwear
Body Protection:	Overalls or similar protective apparel.
HYGIENE MEASURES:	Always wash hands before eating, drinking, smoking or using the toilet. If contamination occurs, change clothing. Launder contaminated clothing before reuse. Discard internally contaminated gloves.

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SPECIAL PROTECTIVE MEASURES: The product will not burn unless preheated. Isolate from sources of heat, naked flames or sparks.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid	Appearance:	Clear & Bright Amber
Colour:	Clear Amber Brown	Odour:	Mild
Melting Point:	Less than 0oC	Boiling Point:	Greater than 300oC
Density @ 15oc (Kg/L):	0.90 typical	Flashpoint (Astm D-93), Closed Cup:	>150°C
Flammability Limits –Lower:	Approximately 1.5%	Flammability Limits -Upper:	Approximately 6.0%
Flammability:	Combustible Liquid C2 according to AS 1940.	Solubility In Water:	Not soluble.
Solubility In Organic Solvents:	Soluble in petroleum solvents.	Vapour Pressure:	Less than 0.1 kPa
Vapour Density (Air = 1):	Greater than 2.0	Viscosity @ 40 OC (Mm2/S):	Approximately 200
Evaporation Rate:	Less than 1 (n-butyl acetate = 1)	Auto-Ignition Temperature:	Greater than 250oC
Explosion Properties:	Not considered an explosion risk under normal conditions of use.	Other Information:	These physical data and other properties do not constitute a specification.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of use.
Conditions to Avoid:	Heat, direct sunlight, open flames or other sources of ignition.
Incompatible Materials:	Strong oxidising agents.
Hazardous Reactions:	Will react with strong oxidising agents.
Hazardous Polymerisation:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information:	This product contains petroleum base oils, which may be refined by various processes including severe solvent extraction, hydro cracking and hydro treating. These oils have not been listed in the U.S. National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic or probably carcinogenic to humans. Oral LD50 ({{UDO1}}) :{ UDO2} mg/kg.
Inhalation:	Inhalation of mists or aerosols can produce respiratory irritation.
Ingestion:	May cause mild irritation of the mouth, throat and stomach with nausea and mild diarrhoea. Large amounts can cause vomiting which can lead to aspiration of vomited material into the lungs.
SKIN:	Will have a de-fatting effect on the skin. Contact with skin may result in irritation.
EYE:	May cause watering of eyes.

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Reproductive Toxicity: This product contains small amounts of para-dodecylphenol. Rats when given high, repeated daily doses by oral intubation experienced adverse reproductive effects. The relevance of these effects to humans is uncertain.

Chronic Effects Prolonged or repeated exposure may result in irritation, with the possibility of dermatitis.

Mutagenicity: Mutagenic effects not known.

Carcinogenicity: Product is not a known carcinogen

12. ECOLOGICAL INFORMATION

Ecological Information: Leaching and penetration through soils is generally regarded as resulting in long-term persistence. Fresh or used product may be harmful to aquatic life.

Do not allow material to enter drains or watercourses.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations: Dispose of according to federal, E.P.A. and state regulations.

14. TRANSPORT INFORMATION

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

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

15. REGULATORY INFORMATION

Poison Schedule: Not scheduled.

Packing & Labelling: No special packaging or labelling requirements.

Australian Inventory Status: All components are listed or exempted

16. OTHER INFORMATION

Additional Information

MINERAL OILS - SOLVENT REFINED; Animal experiments and human experience have not shown cancer risks when handling solvent refined mineral oils, unlike non refined mineral oils. CLEANING MINERAL OIL CONTAMINATED CLOTHING; Cleaners are advised that when cleaning oil contaminated clothing it is essential that freshly distilled solvent is used for each batch, including final rinse, as even filtered solvent will leave oil residues.

MINERAL OILS - USED; Used mineral oils in engine crankcases and other high temperature/high stress environments may contain potentially harmful residues, some of which have been shown to cause irreversible skin effects, including cancer. Prolonged and repeated inhalation of mists associated with used mineral oils may result in pulmonary fibrosis.

MINERAL OILS - INJECTION; Where high pressure applications are used the risk of accidental injection under the skin exists and may result in an extremely painful and serious injury requiring immediate medical attention. Depending on the pressure used, mineral oils may be injected a considerable distance below the skin and may cause permanent tissue damage. SEEK IMMEDIATE MEDICAL ATTENTION. EXERCISE EXTREME CARE WHEN USING HIGH PRESSURE EQUIPMENT.

ABBREVIATIONS: ADB - Air-Dry Basis.
BEI - Biological Exposure Indice(s)
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
CNS - Central Nervous System.
EC No - European Community Number.
IARC - International Agency for Research on Cancer.
M - moles per litre, a unit of concentration.
mg/m³ - Milligrams per cubic metre.
NOS - Not Otherwise Specified.

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NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

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.

TWA/ES - Time Weighted Average or Exposure Standard.

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 MSDS which would encompass all possible scenarios, it is anticipated that the end user will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this MSDS 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 by the end user before final selection of personal protective equipment is made.

REPORT STATUS:

This MSDS has been prepared by Tru-Blu Oil using the most current information available at the time of issuing. Tru-Blu Oil accepts no liability (as lawfully allowed) for any loss, injury or damage which may have been suffered or incurred by any person as a consequence of their reliance on information that is contained in this MSDS.

MSDS Date: 21th November, 2016

End of MSDS