



Material Safety Data Sheet

Product Name: Steam Cylinder Oil

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name TRU-BLU OIL AUSTRALIA PTY LTD
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Synonyms Steam Cylinder Oil 460, Steam Cylinder Oil C570, Steam Cylinder Oil C900

Use(s) Steam engine cylinder oil
SDS Date 28/07/2014

2. Physical Data

Appearance: Light amber mobile liquid with a mineral oil odour.
Boiling Point: > 300° C
Vapour Pressure: Not available
Specific Gravity: 0.9025
Pour Point: -9° C
Flash Point: > 235° (COC)
Flamm. Limit LEL: Not available
Flamm. Limit UEL: Not available
Solubility in Water: Negligible.

3. Other Properties

Viscosity @ 40°C: 404 cSt (Typical)
Stability Haz: Stable under normal conditions of storage and handling.
Polymerization: Will not occur.
Materials to Avoid: Strong oxidising agents.

4. Ingredients

Name	CAS	Proportion
Highly refined mineral hydrocarbons;	64742-65-0	> 95 %
Additives which may include detergents, pour point depressant, anti-foam agent, or rust and oxidation inhibitor.	Mixture	< 5 %

No component is present at sufficient concentration to require a hazardous classification.

5. Health Hazard Information

HEALTH EFFECTS.

- Acute-Swallowed:** May cause irritation of the gastrointestinal tract that may include nausea, vomiting and diarrhoea.
- Acute- Eye:** Eye contact may cause mild irritation with stinging, blurring and tearing.
- Acute- Skin:** May dry and defat the skin, resulting in skin irritation and possible dermatitis. Oil residue accidentally injected under the skin can result in local necrosis and tissue damage.
- Acute- Inhaled:** Inhalation of vapours or mists in confined poorly ventilated areas or at elevated temperatures may cause respiratory system irritation or other pulmonary effects.
- Chronic:** Prolonged or repeated contact may result in skin irritation leading to dermatitis. Repeated exposure to vapour or mist at concentrations in air that exceed exposure standards.

First Aid Measures.

- Inhalation:** Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a facemask if breathing is difficult. If irritation develops and persists seek medical attention.
- Ingestion:** DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Do not give anything by mouth to unconscious person. Seek medical attention.
- Skin:** Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. If irritation develops and persists, seek medical attention. Should oil residue be injected under the skin seek immediate medical attention.
- Eye:** If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding the eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation persists seek medical attention.
- Advice to Doctor:** Treat Symptomatically.
- High-pressure equipment can cause small bloodless puncture wounds where the material may have been deeply injected into the body. If this occurs there is usually extensive swelling, discolouration and intense pain within 24 hours. Seek immediate medical attention at an emergency centre.

PRECAUTIONS FOR USE.

Exposure Limits: No value assigned for this specific material by the National Occupational Health and safety commission (NOHSC). However, exposure standards for oil mist are listed below.

SUBSTANCE	TWA		STEL	
	Ppm	mg/m3	ppm	mg/m3
Oil mist, mineral	-	5	-	10

Eng. Controls: Where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection or local exhaust ventilation system is recommended.



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Personal Protection

- Respirator Type:** Type (AS 1716) Where vapours, mists or spray is generated and exposure standards are exceeded, select and use respirators in accordance with AS/NZS 1715/1716. The use of an approved respirator with organic vapour and dust / mist filters. Filter capacity and respiratory type depends on exposure levels for each individual circumstance.
- Eye Protection:** Safety glasses or face shield as appropriate where splashing or misting is expected during routine operations or spill clean-up. Reference should be made to the Australian standard AS/NZS – Eye Protectors for Industrial Applications.
- Clothing:** Any routine contact with this material should require the use of protective clothing such as gloves or apron made of neoprene, nitrile, or n-butyl rubber suitable for the application.

6. Safe Handling Information

Storage & Transport

- Precautions:** Store in cool dry, well-ventilated area away from sources of ignition. This product should be stored away from foodstuffs and strong oxidising agents. Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimised. Water contamination should be avoided. For information on design of storeroom reference should be made to Australian Standard AS1940, the storage handling of flammable and combustible liquids. Reference should also be made to any relevant Commonwealth, State or Territory regulations.
- Transport:** Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
- Handling:** Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all that come into contact with this material maintain high standards of personal hygiene i.e. Washing hands prior to eating drinking or going to the toilet. Build-up of mists in the working atmosphere must be prevented.
- Misuse of empty containers can be hazardous. Do not cut, weld, heat or drill containers. Residue may ignite with explosive violence if heated sufficiently. Do not pressurise or expose to open flame or heat. Keep container closed and bung in place.

Spills & Disposal

- Spills and Leaks:** Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimise exposure. If possible contain the spill. Place inert absorbent material such as vermiculite, sand or dirt onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain prevent contamination of drains and waterways. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
- Disposal:** This material may present environmental risk common to all oil spills. Dispose of according to federal, E.P.A., State and local regulations. Assure conformity with all applicable regulations.

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Fire / Explosion Hazard.

Fire/ Explos. Haz. Combustible liquid. This product will burn if exposed to fire.

Haz. Combustion Carbon monoxide, carbon dioxide, aldehydes and keytones.

Products. For fires involving this material, do not enter any enclosed or confined space without approved self-contained breathing apparatus (S.C.B.A.) to protect against the hazardous effects of combustion products or oxygen deficiency.

Extinguishing Use water spray, dry chemical foam, or carbon dioxide. Water

Media or foam may cause frothing. Use water to cool fire exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapours and to provide protection for persons stopping the leak.

Hazchem Code: None allocated.

Toxicology: The main constituents in this product are in accordance with note L of the NOHSC Designated List of Hazardous Substances, the manufacturer has had the main constituents tested in accordance with IP346 and contain less than 3% polyaromatics

7. Other Information

EMERGENCY CONTACTS

24 Hour Emergency Contact: (National Emergency Response) 1 800 638 556.

Tru-Blu Oil Australia Pty Ltd:

(After hours contact) Murray Crawford: (03) 5941-1763 (0412) 609 722

REPORT STATUS:

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MSDS Date: 28th July, 2014

End of MSDS

