



MATERIAL SAFETY DATA

Product Name: Tru-Blu XPM 1000 Grease

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name TRU-BLU OIL AUSTRALIA PTY LTD
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Synonym(s) N/A

Use(s) High temperature, extreme pressure and multi-service grease for use in automotive & industrial applications.

SDS Date 26th October, 2016

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

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	CAS No.	Proportion
Residual Oils(Petroleum), Solvent Dewaxed	64742-62-7	> 55%
Distillates(Petroleum), Solvent Dewaxed Light Naphthenic	64742-64-9	< 10%
12-Hydroxy Stearic Acid	8001-78-3	< 10%
Butene, Homopolymer	9003-29-6	< 20%
Mixture of Sulphur and Phosphorus Compounds	-	< 10%
Zinc Dialkyl Dithiophosphate	68649-42-3	< 10%
Borated Ester Complexing Agent	-	< 10%
Lithium Hydroxide Monohydrate	1310-66-3	< 10%
Mixture of Octylated Diphenylamines	68921-45-9	< 10%
Molybdenum Sulfide	1317-33-5	< 10%
Graphite	7782-42-5	< 10%
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl) Ethanol	95-38-5	< 10%
Mixture of Alkyl Mercaptothiadiazoles	-	< 10%

4. FIRST AID MEASURES

ACUTE	SWALLOWED:	This is not expected to be a means of entry during routine operation. Ingestion of small quantities should not cause irritation.
	EYE:	May cause slight irritation to the eyes.
	SKIN:	May be mildly irritating to the skin. High pressure injection through the skin, when using apparatus such as grease guns, can be highly irritating and may cause localised damage.
	INHALED:	No data to indicate a toxic inhalation hazard. Inhalation of vapours or mist (generated at elevated temperatures) may cause irritation to the nose and throat.
CHRONIC:		Prolonged or repeated skin contact may lead to drying of the skin.
FIRST AID	SWALLOWED:	If a large quantity is ingested seek medical attention. It may be necessary to induce vomiting, taking extreme care that the person does not aspirate into the lungs. If aspiration occurs, urgent medical attention should be sought.
	EYE:	Wash with copious amounts of water for 15 minutes and seek medical advice if irritation develops or persists.
	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). Remove person to fresh air and seek medical advice. If not breathing, apply artificial respiration and seek urgent medical aid. Eye wash fountains and safety showers are recommended.
	INHALED:	
	FIRST AID FACILITIES:	
ADVICE TO DOCTOR:		Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability This product is combustible if preheated.
May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

LIST OF DANGEROUS DECOMPOSITION OR COMBUSTION PRODUCTS:

Combustion produces oxides of carbon, nitrogen, sulphur, phosphorus, molybdenum and zinc.

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 water-fog to cool intact containers and nearby storage areas.

Extinguishing Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways.

Precaution Water may cause splattering.

Hazchem Code None Allocated.

Reactivity May react with strong oxidising agents.

6. ACCIDENTAL RELEASE MEASURES

SPILLS AND DISPOSAL: Spills are easily contained due to the nature of the product. Caution: The product may be slippery. The product should be shovelled into a metal drum and treated as a solid waste. Follow state or local regulations for the disposal of the waste. Clean area with soap and water. Do not allow product to enter drains, sewers or water courses
Inform local authorities if this occurs.

7. STORAGE AND HANDLING

Storage and Transport:	Classified as a combustible solid. Store in a well ventilated area away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Do not store in plastic containers unless approved for this application.
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 STANDARDS:

If the material is subjected to high temperature operations and mists or vapours are generated the Manufacturer recommends.

Time Weighted Average (TWA): 5 mg/m³ (oil mist).

Short Term Exposure Limit (STEL): 10 mg/m³ (oil mist).

ENGINEERING CONTROLS:

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 manufacturer recommended exposure standard.

PERSONAL PROTECTION

RESPIRATOR TYPE (AS1716):	During routine operation a respirator is not required. However, if mists or vapours are generated, an approved organic vapour/particulate respirator is required.
GLOVE TYPE:	PVC, Neoprene or Nitrile gloves are recommended.
EYE PROTECTION:	Safety glasses or goggles are recommended to avoid eye contact. If the material is used at elevated temperatures or under pressure a full face shield should be worn.
CLOTHING:	During normal operating procedures, long sleeved clothing is recommended to provide skin protection. Soiled clothing should be washed with detergent prior to re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Smooth black grease.
Vapour pressure (Pa or mmHg at 20 °C):	Not available. Density @
15°C (g/ml):	Typically 0.9.
Flashpoint(°C):	>200 °C (ASTM D-93).
Flammability limits (%):	Not available.
Solubility in water (g/L):	Not miscible with water.

OTHER PROPERTIES

Boiling point (°C):	> 316 °C.
Drop point (°C):	> 260 °C.
Penetration, unworked:	Typically 280.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended conditions of storage.
Conditions to Avoid:	Avoid heat, sparks, open flames and other ignition sources.

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Material to Avoid Incompatible with oxidising agents (e.g. Hypochlorite's), acids (e.g. nitric acid), alkalis (e.g. hydroxides), heat and ignition sources.

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

TOXICOLOGICAL DATA:

ORAL TOXICITY (RATS): Based upon testing of similar products and/or components, this material is considered to be relatively non-toxic with a LD50: > 2000 mg/Kg.

DERMAL TOXICITY (RABBITS): Based upon testing of similar products and/or components, this material is considered to be relatively non-toxic with a LD50: > 2000 mg/Kg.

EYE IRRITATION (RABBITS): Based upon testing of similar products and/or components, this material is considered to be relatively non-irritating with a Draize Score: Greater than 6, but less than 15.

SKIN IRRITATION (RABBITS): Based upon testing of similar products and/or components, this material is considered to be relatively non-irritating with a Primary Irritation Index: Greater than 0.5, but less than 3.

SUBCHRONIC TOXICITY (RATS): Based upon testing of similar products and/or components, this material is considered to show no adverse effects by dermal application to rats.

REPRODUCTIVE TOXICITY (RATS): Based upon testing of similar products and/or components, this material is considered to show no adverse effects in either the mothers or their offspring by dermal exposure of pregnant rats.

CHRONIC TOXICITY (MICE): Based upon testing of similar products and/or components, this material is considered to show no evidence of carcinogenic effects by chronic mouse skin painting studies.

SENSITISATION (GUINEA PIGS): Based upon testing of similar products and/or components, this material is considered to show no evidence of skin sensitisation to guinea pigs during studies.

12. ECOLOGICAL INFORMATION

Environment Mineral oils biodegrade slowly and should not be released to waterways or soil. They can float on water, restricting oxygen exchange with possible asphyxiation of aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Reuse where possible or return to the manufacturer. Do not release to drains or waterways. Contact the manufacturer for additional information

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	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 A poison schedule number has not been allocated to this product 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

Additional Information

The additives in this product include butene, homopolymer (products derived from either/or but-1-ene/but-2-ene) (C4-H8)x (9003-29-6).

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.
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: 26th October, 2016

End of MSDS