

MATERIAL SAFETY DATA SHEET - HELMAR SUPERLUBE MACHINE OIL

1. Identification of Material and Supplier

Product Name: Helmar Superlube Machine Oil
Recommended Use: Lubricant, coating (protective) and release agent.

Supplier: PREMIER GROUP

ABN: 19 072 548 700
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2. Hazards Identification

Not Hazardous according to criteria of NOHSC / ASCC.

Risk Phrases No data available

Safety Phrases No data available

ERMA New Zealand Approval Code No data available

HSNO Hazard Classification No data available

This Material Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The ERMA Web Site (<http://www.ermanz.govt.nz>) should be consulted for a full list of triggered controls and cited regulations.

3. Composition/Information on Ingredients

Composition	CAS#	%
White Mineral Oil (Petroleum)	8042-47-5	100

4. First-Aid Measures

For advice, contact a Poisons Information Centre: In Australia Ph.:13 11 26, In New Zealand Ph.: 0800 764 766, In the USA contact a Poison Control Center Ph.: 1-800-222-1222

Description of necessary measures according to routes of exposure

Ingestion Not expected to be a problem when ingested. If uncomfortable, seek medical assistance.

Eye	No first aid procedures are required. However, as a precaution flush eyes with fresh water. If irritation occurs, call a physician.
Skin	No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.
Inhaled	Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required.
Advice to Doctor	Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
Aggravated Medical Conditions Caused by Exposure	No information available on medical conditions aggravated by exposure to this product.

5. Fire-Fighting Measures

Extinguishing Media:	Product is a Combustible Liquid
Small Fire	Use dry chemicals, CO ₂ , water spray or alcohol-resistant foam.
Large Fire	Use water spray, water fog or alcohol-resistant foam.

Use water spray/fog for cooling. Avoid frothing/steam explosion. Burning liquid may float on water. Although water soluble, may not be practical to extinguish fire by water dilution.

Hazards from Combustion Products: Combustible liquid. Fine sprays/mists may be combustible at temperatures below normal flash point. Heat may build enough pressure to rupture closed containers / spreading fire/increasing risk of burns/injuries. Incompatible with Strong oxidizers such as hydrogen peroxide, nitric acid, sulphuric acid, and sources of ignition. Heat from fire can generate flammable vapour. When mixed with air and exposed to ignition source, vapours can burn in open or explode if confined. Vapours may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapour source. Thermal decomposition may produce carbon monoxide, carbon dioxide, and other toxic vapours.

Special Protective Precautions and Equipment for Fire-fighters: Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit. Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

Hazchem Code: N/A

6. Accidental Release Measures

Emergency Procedures: Personnel involved in the clean up should wear full protective clothing as listed in section 8. Eliminate all sources of ignition. Evacuate all unnecessary personnel. Increase ventilation. Stop leak if safe to do so. Do not touch or walk through spilled material. Do not allow product to reach drains, sewers or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Authority. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. A vapour suppressing foam may be used to reduce vapours

Methods and Materials for Containment and Clean Up: Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect the material and transfer to a suitable, labelled chemical waste container and dispose of promptly. Large Spills: Water spray may reduce vapour but may not prevent ignition in closed spaces.

7. Handling and Storage

Precautions for Safe Handling: Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). Handle containers with care. Open slowly in order to control possible pressure release.

Conditions for Safe Storage, Including Any Incompatibles: Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Storage containers should be grounded and bonded. Drums must be grounded and bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters. Storage Temperature: Ambient. Storage Pressure: Ambient. This product is classified as a 'C2' Combustible Liquid for the purpose of storage and handling in accordance with the requirements of AS1940.

Container Type: Store in original packaging as approved by manufacturer.

Suitable Containers/Packing: Barges Drums Tank Cars Tank Trucks

Suitable Materials and Coatings: Carbon Steel Stainless Steel Polyethylene Polypropylene Teflon

Unsuitable Materials and Coatings: Natural Rubber Butyl Rubber Ethylene-propylene-diene monomer (EPDM) Polystyrene

8. Exposure Controls/Personal Protection

National Exposure Standards: No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However the following may be adopted.

ACGIH TWA: 5mg/m³, STEL: 10mg/m³

OSHA TWA: 5mg/m³

NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Biological Limit Values: No information available on biological limit values for this product.

Engineering Controls: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection

RESPIRATOR: No special respiratory protection is normally required.

EYES: Normal industrial eye protection practices should be employed (AS1336/1337).

HANDS: Wear chemical resistant gloves such as: Butyl rubber (AS2161).

CLOTHING: Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended (AS3765/2210).

9. Physical and Chemical Properties

Appearance	Liquid
Colour	Bright and Clear Liquid
Odour	Characteristic, Mineral Oil
Vapour Pressure	<0.01 mmHg (20°C)
Vapour Density	Not applicable

Boiling Point (°C)	289-430
Melting Point (°C)	Not applicable
Solubility in Water (g/L)	Negligible
Specific Gravity	0.83 (15°C)
Flash Point	Test Unknown 200 Deg C
pH	Not applicable
Flammability Limits (as percentage volume in air)	
Lower Explosion Limit	0.9%
Upper Explosion Limit	7.0%
Ignition Temperature	Not applicable
Specific Heat Value	Not applicable
Particle Size	Not applicable
Volatile Organic Compounds (VOC) Content: Not applicable	
Evaporation Rate	<0.01
Viscosity	Approx 12 cSt (40°C)
Percent Volatile	Not applicable
Octanol / Water partition coefficient	> 7
Saturated Vapour Concentration	Not applicable
Additional Characteristics	Not applicable
Flame Propagation / Burning Rate Of Solid Materials	Not applicable
Properties of Materials that may Initiate Or Contribute to Fire Intensity	Not applicable
Potential for Dust Explosion	Product is a liquid
Reactions that Release Flammable Gases: Not applicable	
Fast of Intensely Burning Characteristics: Not applicable	
Non-flammables That Could Contribute Unusual Hazards to a Fire	Not applicable
Release of Invisible Flammable Vapours And Gases	Not applicable
Decomposition Temperature	Not applicable
Additional Information	No Data Available

10. Stability and Reactivity

Chemical Stability	Product is stable under normal conditions of use, storage and temperature. Combustible liquid.
Conditions to Avoid:	Heat, sparks, open flame, other ignition sources, and oxidizing conditions.
Incompatible Materials	Incompatible with Strong oxidizers such as hydrogen peroxide, nitric acid, sulphuric acid and sources of ignition.
Hazardous Decomposition Products	Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. Thermal decomposition may produce carbon monoxide, carbon dioxide, and other toxic vapours.
Hazardous Reactions	Possibility of hazardous reaction not expected to occur.

11. Toxicological Information

Toxicity Data	Oral LD50 Rat : >5000mg/Kg Skin LD50 Rabbit : >5000mg/Kg
Ingestion	Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. May cause vomiting, coughing, shortness of breath, dizziness.
Eye Contact	Practically non-irritating.
Skin Contact	Not expected to be a sensitizer. Practically non-irritating. May cause slight skin irritation.
Inhalation	Harmful concentrations of mists and / or vapours are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product. Not expected to be a sensitizer.

12. Ecological Information

Ecotoxicity	Chronic Toxicity data (fish), (NOEC: >5000ml/L (7day) –IUCID Data Chronic Toxicity data (Aquatic Invertebrates), NOEC=552mg/L (7day) – IUCID Data * NOEC: No Observed Effect Concentration
Persistence and Degradability	Expected to be biodegradable.
Mobility	Expected to have mobility in soils.
Environmental Fate	Do NOT let product reach waterways, drains and sewers.
Bioaccumulative Potential	No information available on bioaccumulation for this product.

13. Disposal Considerations

Disposal	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
Special Precautions for Land Fill or Incineration	Contact a specialist disposal company or the local waste regulator for advice.

14. Transport Information

Road Transport / Australia

Regulation	ADG
Shipping Name	WHITE MINERAL OIL (PETROLEUM)
UN Number	Not applicable
Dangerous Goods Class	C.2 Combustible Liquid
Subsidiary Risk	None allocated
Pack Group	Not applicable
Hazchem Code	None allocated
EPG	None allocated

Sea Transport

Regulation	IMDG
Shipping Name	WHITE MINERAL OIL (PETROLEUM)
UN Number	Not applicable
Dangerous Goods Class	None allocated
Subsidiary Risk(s)	None allocated
Pack Group	Not applicable
Hazchem Code	None allocated
EPG	None allocated
Maritime Pollutant	None allocated
EMS	None allocated

Air Transport

Regulation	IATA
Shipping Name	WHITE MINERAL OIL (PETROLEUM)
UN Number	Not applicable
Dangerous Goods Class	None allocated
Subsidiary Risk	None allocated
Pack Group	Not applicable
Hazchem Code	None allocated
EPG	None allocated

Road Transport / New Zealand

Regulation Name	NZS5433
Shipping Name	WHITE MINERAL OIL (PETROLEUM)
UN Number	Not applicable
Dangerous Goods Class	None allocated
Subsidiary Risk	None allocated
Pack Group	Not applicable
Hazchem Code	None allocated
EPG	None allocated
Special Precaution User	

15. Regulatory Information

No Data Available	
Poisons Schedule	Not available
AICS Name	WHITE MINERAL OIL, PETROLEUM
NZ Toxic Substance	N
HSNO Hazard Classification	No data
ERMA Approval Code	No data
Additional Information	No data available

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. Other Information

Contact Point: PREMIER GROUP

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