MATERIAL SAFETY DATA SHEET

SECTION 1  PRODUCT AND COMPANY IDENTIFICATION

Not classified as hazardous according to criteria of National Occupational Health and Safety Commission.

PRODUCT

<table>
<thead>
<tr>
<th>Product Name</th>
<th>CAT HYDRAULIC OIL (HYDO) SAE 10W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Description</td>
<td>Base Oil and Additives</td>
</tr>
<tr>
<td>Product Code</td>
<td>20202050B020, 478909</td>
</tr>
<tr>
<td>Intended Use</td>
<td>Hydraulic/gearbox fluid</td>
</tr>
</tbody>
</table>

COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Supplier</th>
<th>MOBIL OIL AUSTRALIA PTY LTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.B.N.</td>
<td>88 004 052 984</td>
</tr>
<tr>
<td>Address</td>
<td>12 Riverside Quay</td>
</tr>
<tr>
<td></td>
<td>Southbank</td>
</tr>
<tr>
<td></td>
<td>Victoria 3006 Australia</td>
</tr>
</tbody>
</table>

| 24 Hour Environmental / Health Emergency Telephone | 1-800-023-005 |
| Product Technical Information                      | 1-800-033-863 |
| Supplier General Contact                            | 1-800-631-296 |

SECTION 2  HAZARDS IDENTIFICATION

Hazard Classification: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOOD.

Refer to Section 15, Regulatory Information, for hazard classification criteria.

POISON SCHEDULE NUMBER: None Allocated.

HEALTH HAZARDS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

Note: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 3  COMPOSITION / INFORMATION ON INGREDIENTS
Reportable Hazardous Substance(s) or Complex Substance(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS#</th>
<th>Concentration*</th>
<th>Symbols/Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZINC DITHIOPHOSPHATE</td>
<td>68649-42-3</td>
<td>&lt; 2.5%</td>
<td>Xi;R38, Xi;R41</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Other ingredients determined not to be hazardous up to 100%.

SECTION 4  FIRST AID MEASURES

INHALATION
Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT
Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT
Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION
First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5  FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight streams of water

FIRE FIGHTING
Fire Fighting Instructions: Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Pressurised mists may form a flammable mixture.

Hazardous Combustion Products: Aldehydes, Oxides of carbon, Smoke, Fume, Sulphur Oxides, Incomplete combustion products

FLAMMABILITY PROPERTIES
**Flash Point [Method]:** >200°C (392°F) [ASTM D-92]

**Flammable Limits (Approximate volume % in air):**
- LEL: 0.9
- UEL: 7.0

**Autoignition Temperature:** N/D

### SECTION 6  ACCIDENTAL RELEASE MEASURES

**NOTIFICATION PROCEDURES**
In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**SPILL MANAGEMENT**
- **Land Spill:** Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.

- **Water Spill:** Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

**ENVIRONMENTAL PRECAUTIONS**
Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

### SECTION 7  HANDLING AND STORAGE

**HANDLING**
Prevent small spills and leakage to avoid slip hazard.

**Static Accumulator:** This material is a static accumulator.

**STORAGE**
Do not store in open or unlabelled containers.

### SECTION 8  EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits/standards for materials that can be formed when handling this product:**

**NOTE:** Limits/standards shown for guidance only. Follow applicable regulations.

**Biological limits**
No biological limits allocated.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

- Particulate
  - No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

- Neoprene, Nitrile, Viton
  - No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

- No skin protection is ordinarily required under normal conditions of use.

In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practise good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.
SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION
   Physical State: Liquid
   Colour: Amber
   Odour: Characteristic
   Odour Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION
   Relative Density (at 15 C): 0.88
   Flash Point [Method]: >200°C (392°F) [ASTM D-92]
   Flammable Limits (Approximate volume % in air): LEL: 0.9   UEL: 7.0
   Autoignition Temperature: N/D
   Boiling Point / Range: > 316°C (600°F)
   Vapour Density (Air = 1): > 2 at 101 kPa
   Vapour Pressure: < 0.013 kPa (0.1 mm Hg) at 20°C
   Evaporation Rate (N-Butyl Acetate = 1): N/D
   pH: N/A
   Log Pow (n-Octanol/Water Partition Coefficient): > 3.5
   Solubility in Water: Negligible
   Viscosity: 37 cSt (37 mm²/sec) at 40°C | 6.1 cSt (6.1 mm²/sec) at 100°C
   Oxidising properties: See Sections 2, 15, 16.

OTHER INFORMATION
   Freezing Point: N/D
   Melting Point: N/A
   Pour Point: -18°C (0°F)
   DMSO Extract (mineral oil only), IP-346: < 3 %wt

SECTION 10  STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

INCOMPATIBLE MATERIALS: Strong oxidisers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS REACTIONS: Will not occur.

SECTION 11  TOXICOLOGICAL INFORMATION

Acute Toxicity

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Conclusion / Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>INHALATION</td>
<td></td>
</tr>
<tr>
<td>Toxicity (Rat):</td>
<td>Minimally Toxic. Based on assessment of the components.</td>
</tr>
<tr>
<td>LC50 &gt; 5000 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Irritation:</td>
<td>Negligible hazard at ambient/normal handling temperatures.</td>
</tr>
<tr>
<td>No end point data</td>
<td></td>
</tr>
</tbody>
</table>
INGESTION
Toxicity (Rat): LD50 > 2000 mg/kg Minimally Toxic. Based on test data for structurally similar materials.

Skin
Toxicity (Rabbit): LD50 > 2000 mg/kg Minimally Toxic. Based on test data for structurally similar materials.
Irritation (Rabbit): Data available. Negligible irritation to skin at ambient temperatures. Based on assessment of the components.

Eye
Irritation (Rabbit): Data available. May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.

CHRONIC/OTHER EFFECTS
Contains:
Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitising in test animals.

Additional information is available by request.

IARC Classification:
The Following Ingredients are Cited on the Lists Below: None.

--REGULATORY LISTS SEARCHED--
1 = IARC 1
2 = IARC 2A
3 = IARC 2B

SECTION 12 ECOLOGICAL INFORMATION
The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY
Material -- Not expected to be harmful to aquatic organisms.

MOBILITY
Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY
Biodegradation:
Base oil component -- Expected to be inherently biodegradable

BIOACCUMULATION POTENTIAL
Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.
SECTION 13  DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS
Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

Empty Container Warning
Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14  TRANSPORT INFORMATION

LAND (ADG) : Not Regulated for Land Transport

SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA) : Not Regulated for Air Transport

SECTION 15  REGULATORY INFORMATION

Material is not hazardous as defined by the Approved Criteria for Classifying Hazardous Substances NOHSC:1008.

Product is not regulated according to Australian Dangerous Goods Code.

No Poison Schedule number allocated by the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) established under the Therapeutic Goods Act.

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Complies with the following national/regional chemical inventory requirements: TSCA, EINECS, PICCS, ENCS, IECSC, KECI, DSL, AICS

SECTION 16  OTHER INFORMATION

KEY TO ABBREVIATIONS AND ACRONYMS:
N/D = Not determined, N/A = Not applicable, STEL = Short-Term Exposure Limit, TWA = Time-Weighted Average
KEY TO THE RISK CODES CONTAINED IN SECTION 2 AND 3 OF THIS DOCUMENT (for information only):
R38; Irritating to skin.
R41; Risk of serious damage to eyes.

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:
Revision Changes:
Section 06: Notification Procedures - Header was modified.
Section 08: Hand Protection was modified.
Section 15: National Chemical Inventory Listing was modified.
Section 08: Exposure limits/standards was deleted.

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DGN: 7078985XAU (1012272)

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EMBSI, Clinton NJ USA
Contact Point: See Section 1 for Local Contact number

End of (M)SDS