Substance Risk Assessment

Product Name:	Prolube Hyplex-H-ISO-100	SDS Issue Date:	30/09/2019
Note – Obtain current SDS (<5yrs from date of issue) before completing this risk assessment			
Manufacture:	Lidomont Pty. Ltd., trading as Prolube Lubricants	Telephone	07 3881 1733
Hazardous Substance:	☐ Yes ☒ No *(Check for a pictogram in section 2 of the safety data sheet).*		

C'pressed Gas	Corrosive	Enviro Hazard	Explosive	Flammable	Harmful Irritant	Health Hazard	Oxidising	Toxic
								
☐	☐	☐	☐	☐	☐	☐	☐	☐

Uses / application:	General maintenance for Excavator "Hydraulic oil"
Form of substance:	☐ Solid ☒ Liquid ☐ Gas ☐ Fine dust ☐ Coarse dust ☐ Paste ☐ Other specify: N/A

Can a non / less hazardous product be used for this activity?

☐ Yes ☒ No If 'yes' give reasons for not using: N/A

How much of the product will the users be exposed to during the task? (e.g., litres, millilitres etc)

20 Litres

How long will the users be exposed to the product? (e.g., hours per day, days per week, etc):

5 minutes / monthly

Isolation:	☒ Containers stored away from the work area when not in use. ☒ Containers stored in well ventilated area / suitable containers and away from incompatible materials. ☒ Containers kept closed when not in use. ☒ No ignition sources / no smoking.
Ventilation:	☒ Ensure natural ventilation. ☐ Use of mechanical ventilation. ☐ Local exhaust ventilation (LEV) extraction devices.
Other Controls	☒ Training in safe storage and application. ☒ Job rotation to reduce exposure. ☒ Avoid contact with skin and eyes. ☒ Use of barrier creams. ☒ Good personal hygiene – wash hands before eating, drinking, smoking, toilet.

First Aid Measures: *(Check section 4 of the safety data sheet).*

Wash Eyes	Wash Skin	Induce Vomit	Give Fluid	Remove to Air
☒	☐	☐	☐	☒

Seek medical assistance if condition persists / Immediate medical attention is required for ingestion.

Fire and remedial: *(Check section 5 of the safety data sheet).*

☐ Water ☐ Carbon Dioxide (C02) ☒ Dry Chemical Powder (ABE/BE) ☐ Foam ☐ Wet Chemical ☐ Fire Blanket ☐ N/A Comments: N/A

Exposure route of chemical: *(Check section 8 of the safety data sheet).*

☐ Inhalation ☒ Skin (absorption) ☐ Eye ☐ Ingestion ☐ Injection ☐ Other – Specify: N/A

Is air monitoring required?	☐ Yes ☒ No	Is health monitoring required?	☐ Yes ☒ No

Note: N/A

Health surveillance is required for substances containing one or more of the following ingredients:

4,4' Methylenebis (MOCA)	Acrylonitrile	Asbestos	Benzene
Cadmium	Creosote	Crystalline silica >1%	Inorganic arsenic
Inorganic chromium	Isocyanates	Organophosphate pesticides	Pentachlorophenol (PCP)
Polycyclic aromatic hydrocarbons	Thallium	Vinyl chloride	

Can this chemical be used in accordance with the controls nominated in the SDS?	☒ Yes ☐ No

If no, please explain why? (Ensure controls listed manage each of the exposure routes ticked above if required).

N/A

Is any Personal Protective Equipment (PPE) required when using the chemical?	Yes

	☒ Eye Protection		☐ Mask / Respirator (Sundstrom SR100 Half Face)
	☐ Eye and Face Protection		☒ Gloves
	☒ High Visibility Clothing		☒ Safety Protective Footwear
	☒ Overalls / Clothing		☐ Other Specify: N/A

Level of Risk:

☒ Risk is insignificant and is not likely to increase in future.
☐ Risks are significant but effectively controlled (but could increase in the future).
☐ Risks are significant and not effectively controlled.
☐ Uncertain about the risks.

Person / s conducting risk assessment: Phil Jenkins, Jay Gaddes

Assessment approved by:	Phil Jenkins Workplace Health and Safety Manager		
Signature:		Date:	21-09-2023
Next assessment due:	30/09/2024		

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SAFETY DATA SHEET

compiled according to Safe Work Australia and the GHS

Creation/Revision Date:
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1. IDENTIFICATION

Product Identifier	**HYPLEX H ISO 100**
Product Code	1110
Other Means of Identification	Base Oil and Additive Mixture
Recommended Use of the Chemical and Restriction on Use	Industrial hydraulic oil
Details of Manufacturer or Importer	Lidomont Pty. Ltd., trading as Prolube Lubricants 15 Pinacle Street, Brendale, Queensland, 4500
Phone	07 3881 1733 (+61 7 38811733 – International)
Emergency Telephone	000 (Australia Only)
Poisons Information Centre Phone	13 11 26

2. HAZARDS IDENTIFICATION

Physical Hazard(s)	Not classified as Hazardous according to Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.
Health Hazard(s)	Not classified (All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 Test, hence are not classified as a carcinogen.)
Environment Hazard(s)	Not Classified
GHS Label Elements	None Applicable
Signal Word	No Signal Word

Hazard Statement(s)

Void

Precautionary Statement(s): General

P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P103 Read label before use

Precautionary Statement(s): Prevention, Response, Storage and Disposal

Not applicable

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	***CAS Number***	***Concentration***
Distillates hydrotreated heavy paraffinic; Baseoil - unspecified	64742-54-7	> 80%
Proprietary Additives		to 100%

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. Remove contaminated clothing. Launder contaminated clothing before reuse. 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.

5. FIRE FIGHTING MEASURES

Suitable extinguishing equipment

In case of fire use dry chemical, foam or carbon dioxide fire extinguisher. DO NOT use water.

Specific hazards arising from the chemical

Combustion products may contain carbon monoxide and carbon dioxide and smoke. Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special protective equipment and precautions for firefighters

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

No action should be taken which might involve personal risk or without suitable training. Use Safe Work Australia approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.
Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental precautions

In the event of a major spill, prevent spillage from entering drains or water courses, basements or confined spaces. Dyke far ahead of liquid spill for later recovery and disposal.

Methods and materials for Containment and cleaning up

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.
Collect the spilled material and place into a suitable container for disposal according to local regulations, preferably using a licensed waste disposal contractor.

7. HANDLING AND STORAGE

Precautions for safe handling

Use appropriate personal protective equipment – see Section 8. Use safe work processes to avoid eye or skin contact and inhalation of vapours. Use only in well ventilated areas.
Do not store in contact with food, beverages or tobacco products. Eating drinking or smoking in areas where this product is stored or processed should be prohibited. Always wash thoroughly after handling. Wash contaminated clothing and other protective equipment before storage or reuse. Provide eyewash fountains and safety showers in close proximity to points of use.

Conditions for safe storage

Store in accordance with local regulations in a cool, dry and well ventilated area. Store in original container tightly closed and away from incompatible materials (see Section 10). Check regularly for leaks and physical damage. Opened containers should be carefully resealed and stored in an upright position. Empty containers may contain residues and be dangerous. Store and use only in equipment designed for use with this type of product. Use appropriate bunding or containment to prevent environmental contamination.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures

Mineral Oil Mist TWA 5mg/m^3 Safe Work Australia

Engineering controls

Engineering controls should be in place as a primary source of protection over the use of Personal Protective Equipment. Ensure adequate ventilation of the working area or provide exhaust ventilation to keep the relevant airborne concentrations below acceptable levels.

Individual protection measures

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.
Eye and face protection*:* If contact is likely, safety glasses with side shields are recommended.
Skin 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 chemical resistant, nitrile or viton.
Long sleeve and long pants will provide protection.
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. A particulate type respirator should be considered for this material. 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.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: *Form*	Viscous liquid

Colour	Blue
Odour	Mild oil
Odour Threshold	Not determined
pH-Value	Not applicable
Melting point/Melting range	Not applicable
Initial Boiling Point/Boiling Range	> 280 °C
Flash Point	> 220 °C (ASTM D-93)
Flammability	Combustible Liquid Class 2
Auto-ignition Temperature	>320 °C
Decomposition Temperature	No information available
Explosion Limits: *Lower*	1 Vol % (typical)
Upper	10 Vol % (typical)
Vapour Pressure at 20 °C	< 0.5 Pa
Relative Density at 15 °C	0.86-0.92
Vapour Density	>1
Evaporation Rate	Not applicable
Solubility in Water	Negligible
Viscosity at 40 °C	~100 cSt
Viscosity at 100 °C	~13.6 cSt

10. STABILITY AND REACTIVITY

Reactivity: Will not occur.

Chemical stability: Stable at ambient temperature and under normal conditions of use.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Excessive heat. High energy sources of ignition.

Incompatible materials: Strong oxidisers.

Hazardous decomposition products: Material does not decompose at ambient temperatures.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50/LC50 values relevant	
Oral LD 50	Not available
Dermal LD50	Not available
Inhalation LC50	Not available
Acute Health Effects	
Inhalation	No adverse health effects expected
Skin	No irritating effect
Eye	No irritating effect
Ingestion	No adverse health effects expected
Skin Corrosion / Irritation	Based on classification principles, the classification criteria are not met
Serious Eye Damage / Irritation	Based on classification principles, the classification criteria are not met
Respiratory or Skin Sensitisation	Based on classification principles, the classification criteria are not met
Germ Cell Mutagenicity	Based on classification principles, the classification criteria are not met

Carcinogenicity	Mineral oils, highly-refined are classified by IARC as Group 3 – not classifiable as to its carcinogenicity to humans
Reproductive Toxicity	Based on classification principles, the classification criteria are not met
Specific Target Organ Toxicity (STOT) -	
Single Exposure	Based on classification principles, the classification criteria are not met
Repeated Exposure	Based on classification principles, the classification criteria are not met
Aspiration Hazard	Based on classification principles, the classification criteria are not met
Chronic Health Effects	No information available
Existing Conditions Aggravated by Exposure	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity: Expected to be harmful to aquatic organisms.

Persistence and degradability: Base Oil component is expected to be inherently biodegradable.
Additive components show moderate biodegradation.

Bioaccumulative Potential: Limited potential for bioaccumulation.

Mobility in soil: Low solubility and miscibility. Floats on water. Expected to migrate from water to land.

13. DISPOSAL CONSIDERATIONS

Disposal method and Containers

Dispose according to applicable local and state government regulations.
Empty containers may contain residue and can be dangerous. Packaging should be recycled and disposal via incineration or landfill should only be considered when recycling not possible. *Do not pressurize, 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.*

Special precautions for incineration or landfill

Consult your state Land Waste Management Authority for more information. Product may be suitable for burning in an enclosed controlled burner for fuel value or disposal by incineration at very high temperatures.

14. TRANSPORT INFORMATION

	Australian Dangerous Goods (ADG)	**International Maritime Dangerous Goods (IMDG)**	**International Air Transport Association (IATA)**
UN Number	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	n/a	n/a	n/a
Dangerous Goods Class	n/a	n/a	n/a
Packing Group	n/a	n/a	n/a

Special precautions for user: None Available

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) – Poison Schedule
Not scheduled
Australian Inventory of Chemical Substances (AICS)
All components are listed or exempt

16. OTHER INFORMATION

Creation Date: 14-Jul-16 Prepared by Lidomont Pty Ltd, 15 Pinacle St Brendale QLD
Revision information
Date and Changes: none

Abbreviations Used
GHS, Globally Harmonised System of Classification and labelling of Chemicals
CAS, Chemical Abstracts Service (Division of American Chemical Society)
LC50, Lethal concentration 50%
LD50, Lethal dose 50%
STEL, Short Term Exposure Limit
TWA, Time Weighted Average
UN, United Nations
n/a, not applicable

Disclaimer
This SDS is prepared in accord with the Safe Work Australia document "Code of practice for the Preparation of Safety Data Sheets for Hazardous Chemicals – December 2011. The information and recommendations contained herein are, to the best of Prolube's knowledge and belief, accurate and reliable as of the date issued. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet. You can contact Prolube to insure that this document is the most current available from Prolube. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users.