

LHM FLUID

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier and uses of the substance or mixture

Product Name	Indy LHM Fluid
Description	Central Hydraulic System Fluid
Relevant uses	Hydraulic braking, power steering, suspension and levelling systems

1.2 Details of the supplier of the safety data sheet

Manufacturer	GUD Holdings (Pty) Ltd via Indy Oil SA 3 The Avenue East Isipingo KwaZulu-Natal South Africa 4110

1.3 Emergency telephone number

Emergency Contact Number(s)	+ 27 31 910 3111 + 27 60 572 8088

2 HAZARDS INDENTIFICATION

2.1 Classification of substance or mixture

Not classified.

2.2 Label elements

Signal Word	No Signal word
Hazard statements	**H318** Causes serious eye damage

When used as intended, this product is not expected to pose a health risk.
Used oil may be hazardous to health and the environment—always dispose of it responsibly and in accordance with applicable legislation.

	H315 Causes skin irritation.
	H412 Harmful to aquatic life with long lasting effects.
Precautionary statement	**P102** Keep out of reach of children.
Prevention	**P264** - Wash hands, forearms and face thoroughly after handling.
	P273 - Avoid release to the environment.
	P280 Wear protective gloves / protective clothing / eye protection / face protection.
Response	**P302 + P352** If on skin: Wash with plenty of water.
	P302 + P352 - IF ON SKIN: Wash with plenty of water.
	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310 - Immediately call a POISON CENTER/doctor.
	P321 - Specific treatment (see supplemental first aid instruction on this label).
	P332 + P313 - If skin irritation occurs: Get medical advice/attention.
	P362 + P364 - Take off contaminated clothing and wash it before reuse.
Disposal	**P391** - Collect spillage.
	P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

3 COMPOSITION/INFORMATION ON INGREDIENTS:

Component	EINECS Number	CAS registry number	% content	Classification
Distillate (Petroleum), Solvent dewaxed, paraffinic	265-157-1	64742-54-7	60 - 95	H319 / H318
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	270-478-5	68442-22-8	75 - 85	H315, H318, H411
Zinc alkylnaphthalenesulfonate	248-778-2	28016-00-4	1 - 5	H319, H315
2,5-Furandione, 3-(dodecenyl) dihydro-	246-917-1	5377-73-5	1 - 5	H315, H319
Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%) hydroxyphenyl) propanoate	265-150-3	64742-48-9	0.5 - <	H226, H304

4. FIRST AID MEASURES

General Information

If the product splashes into the eye it may cause irritation and conjunctivitis. Ingestion may lead to irritation of the mouth, throat and digestive tract. Aspiration into the respiratory system may occur directly or following ingestion.

Prolonged exposure to vapour may cause headache, dizziness, nausea and irritation to the eyes, upper respiratory tract, mouth and digestive tract. Obtain medical attention if discomfort continues. Remove affected person from source of contamination.

The following recommendations apply to sources of exposure:

Inhalation	Remove to fresh air, and keep affected person at rest. Obtain medical attention if irritation to respiratory tract is severe and adversely affects breathing.

Ingestion	Rinse out mouth thoroughly. Do not induce vomiting. Obtain medical attention immediately.
Skin Contact	Remove contaminated clothing, and wash skin with soap and water. Clothing must be laundered before reuse. If irritation persists, obtain medical attention.
Eye Contact	Flush eyes with clean water for at least 15 minutes. Do not rub or agitate the affected area.

5. FIRE FIGHTING MEASURES

Hazardous combustion products may include carbon monoxide (CO) and carbon dioxide (CO_2), as well as combustion products of sulphur and nitrogen.

Extinguishing Media:	Foam or dry chemical powder. Carbon dioxide, sand or earth can be used for small fires. Keep containers exposed to the fire cool by spraying with water. The danger zone should be cleared immediately.
Protective Equipment	Proper protective equipment including breathing apparatus must be worn when approaching a fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid inhalation of vapour and aerosol spray. Avoid contact with eyes, and prolonged skin contact. Ensure adequate ventilation is provided. In the event of a spill, beware of slippery surfaces.
Environmental precautions	Do not allow environmental contamination to occur. Avoid disposal (accidental or incidental) of product into drains, sewers, rivers and other water sources, and onto the ground. Use appropriate spill containment measures to avoid environmental contamination. Inform local authorities if this cannot be prevented. Use sand, earth or other appropriate absorbent material to contain spills. The product should not be dumped, but collected and delivered according to agreement with local authorities.

Spill clean-up / containment	Stop product leak if possible to do so without risk. Extinguish all ignition sources, and ensure adequate ventilation. The product in its liquid form can be contained by creating a barrier using sand, earth or other appropriate containment material. Collect with absorbent, non-combustible material into suitable containers. Do not allow run-off into sewers and drains. Dispose of material according to agreement with local authorities. Inform authorities immediately if the liquid enters surface water sources.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS

Ensure good personal hygiene when handling product. Wash hands, clothing and other contaminated areas with water and soap before leaving the work site to minimize spread of contamination. Do not eat, drink or smoke when using the product. Avoid forming sprays / aerosol mists. Ensure adequate ventilation is provided when product is being used. Ensure personal protective equipment is used where necessary.

STORAGE CONDITIONS

Store the product in its original container, and ensure that the container is tightly closed and kept upright. Store in a cool, dry, and well-ventilated area. Ensure that the relevant spill containment apparatus is available. Exposure to excessive temperatures should be avoided. Water contamination should be avoided. The product is suitable for short-term storage in mild steel and high-density polyethylene (HDPE) containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

PROTECTIVE EQUIPMENT

The following personal protective equipment is applicable:



ENGINEERING MEASURES

Provide adequate ventilation. Observe occupational exposure limits and minimize risk of inhalation of vapour.

RESPIRATORY EQUIPMENT

The use of respiratory equipment under normal operating conditions is not required. Should operating conditions create airborne concentrations that are excessive, the use of an approved respirators such as toxic dust, mist and fume respirators are recommended

HAND PROTECTION

The use of chemical-resistant, nitrile or butyl rubber gloves is recommended.

EYE PROTECTION

The use of tightly-fitted safety goggles / glasses is recommended when splashing is probable.

OTHER PROTECTION

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENE MEASURES

Wash contaminated clothing promptly and before reuse. Wash skin with soap and water upon contamination.

OCCUPATIONAL EXPOSURE

The ACGIH TLV for mineral oil mists is 5 $mg.m^{-3}$ for a time period of 8-hour exposure. A short-term exposure limit of 10 $mg.m^{-3}$ (STEL) is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical appearance	Liquid at ambient temperature.

Colour	Amber.
Odour	Hydrocarbon.
Solubility	Insoluble in water.
Vapour density (air = 1)	Heavier than air.
Viscosity at 40ºC (kinematic)	17-23 cSt (typical)
Viscosity at 100ºC (kinematic)	5.5-6.6 cSt (typical)
Density at 20ºC	820-860 kg.m^{-3} (typical)
Flash Point	>200 °C.

10. STABILITY AND REACTIVITY

Chemical stability	Stable.
Reactivity	Not reactive.
Materials to avoid	Strong oxidising agents.
Conditions to avoid	Extremes of temperatures.
Hazardous Decomposition Products	None under normal conditions known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product.

Routes of entry

Inhalation. Ingestion. Skin or eye contact.

Toxicological data

Acute toxicity - Oral	LD50 expected to be > 2000 mg/kg
Acute toxicity - Dermal	LD50 expected to be > 2000 mg/kg
Inhalation	Not considered a hazard under normal use
Eye Irritation	Can be slightly irritating
Skin Irritation	Can be slightly irritating upon prolonged exposure.

Respiratory Irritation	If mists are inhaled, slight irritation of the respiratory tract may occur.
Carcinogenicity	Not known to be carcinogenic.
Mutagenicity	Not considered to be a mutagenetic hazard.
Reproductive toxicity	Not considered to be a hazard.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

The product may cause physical fouling of the aquatic environment, and may present risks associated with oil spills.

BIOACCUMULATION

The product has the ability to bioaccumulate. No available data on bioaccumulation.

DEGRADABILITY

No available data on degradability.

13. DISPOSAL CONSIDERATIONS

Waste relating to the product is considered hazardous, and should be disposed of according to regulations as stipulated by local authorities.

14. TRANSPORTATION INFORMATION

The product is not regulated and no special transportation requirements exist.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

European Union – European Inventory of Existing Commercial Chemical Substances (EINECS) (English).

Chemical Safety Assessment

No data available.

16. OTHER INFORMATION

Full text of H-Phrases

H226	Flammable Liquid.
H304	Aspiration hazard
H315	Causes skin irritation.
H318	Risk of serious damage to eyes.
H319	Causes serious eye irritation.
H411	Hazardous to the aquatic environment, long-term hazard

Abbreviations that may have been used in this document

CAS	Chemical Abstract Service Number
GHS	Global Harmonised System
LD50	Lethal dose 50
SDS	Safety Data Sheet

Further information

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