



# LOGCO PRODUCTS.

## Safety Data Sheet

LOGCO  
HYDRAULIC OIL  
ISO 46

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Revision:	Date: Change:

### 1. PRODUCT INFORMATION

Product Name	LOGCO Hydraulic oil ISO 46
Application	Hydraulic Oil
Company	Resapol
Address	Cliffdale Road, Meanwood, Leeds, West Yorkshire, LS7 2JF, U.K.
Telephone No	(+44) (0)113 216 8811
Fax No	(+44) (0)113 216 8833
<b>Emergency Telephone No.</b>	<b>(+44) (0)113 216 8811 (Office Hours)</b>
e-mail	technical@logco.co.uk

### 2. HAZARDS

This product should be handled in accordance with good industrial hygiene and safety practices.

<b>Classification CE:</b>	Not classified as dangerous for supply/use according to Directive 67/548/EEC as amended.
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<b>Hazard summary</b>	Not applicable
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<b>CLP Classification (No. 1272/2008 as amended)</b>	None
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Signal word	None
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CLP Hazard Statements	None.
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#### Main Symptoms

Inhalation	Not classified.
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Skin Contact	Not classified.
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Eye Contact	Not classified.
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Ingestion	Not classified
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#### Environmental properties

Not classified for hazards to the environment
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### 3. COMPOSITION

3.1 Hydraulic Oil.

3.2 Dangerous Ingredients

Substance Name	Values (%)	Cas No.	EC No	EC Index	Symbols	R Phrases
Distillates (petroleum), hydrotreated heavy paraffinic)	<100%	64742-54-7	265-157-1	649-467-00-8	None	None

Full text of R-phrases: see section 16

Substance Name	Values (%)	Cas No.	EC No	EC Index	CLP Pictogram	CLP Hazard Statements
Distillates (petroleum), hydrotreated heavy paraffinic)	<100%	64742-54-7	265-157-1	649-467-00-8	None	None

Full text of H Statements: see section 16

### 4. FIRST AID MEASURES

Inhalation	IF INHALED: If breathing is difficult. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	WASH AFFECTED SKIN WITH PLENTY OF WATER AND SOAP If symptoms develop, obtain medical attention. Take off contaminated clothing and shoes immediately.
Eye contact	Irrigate with eye wash solution or clean water, holding the eyelids apart for at least 15 minutes. Obtain immediate medical attention.
Ingestion	DO NOT INDUCE VOMITING. Obtain immediate medical attention Rinse mouth. Wash out mouth with water and give 200 – 300 ml (half a pint) of water to drink. Never give anything by mouth to an unconscious person.
Additional advice	Show this safety data sheet to the doctor in attendance. Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Fire Hazard	Non-flammable, Flash Point <220C (COC)
Extinguishing Media	Use carbon dioxide, water mist, foam or dry powder.
Not to be used	Direct water jet.
Special fire fighting procedures	In the event of a large fire wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
WARNING	Heat from a fire could possibly result in drums bursting; use water spray to cool drums. In combustion emits toxic fumes (oxides of carbon and thick smoke).

**6. ACCIDENTAL RELEASE MEASURES**

Personnel precautions	Wear personal protective equipment. WEAR EYE/FACE PROTECTION. See also Section 8.
Environmental precautions	Do not flush into surface water or sanitary sewer systems.
Methods for cleaning up	Caution – spillages may be slippery. Clean-up methods –all spillages Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material (sand, earth or any suitable absorbent material.) Transfer to container for disposal or recovery. Dispose of in accordance with local regulations. After cleaning, flush away traces with water. Local authorities should be advised if significant spillages cannot be contained. If spillage enters drains call Environmental Agency Emergency on 0800 807060.

**7. HANDLING & STORAGE**

7.1 Handling	Precautions should be taken against skin and eye contact. Avoid generation of mist. Provide adequate ventilation. Wear safety shoes when handling containers. When handling, protective clothing should be worn including impervious gloves and eye protection. Do not wear contaminated clothing.	
7.2 Storage	Keep at a temperature not exceeding 40C. Do not allow to solidify, minimum storage temperature -20C. Provide an adequate bund wall. Take precautionary measures to prevent spills into drains, soil or water. External tanks or stillage should be banded. All containers must be properly labelled.	
	Recommended storage temperature	5C to 40C
	Storage life	12 months (minimum) in original containers.
	Warehousing Class	B1(c)

### 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

#### Personal protective equipment

<b>Respiratory Protection</b>	Not normally required. In case of insufficient ventilation wear suitable respiratory equipment with a filter (combined particle and organic vapour filter type A2/P2).
<b>Hand Protection</b>	Nitrile rubber. Neoprene gloves EN374-3 The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to) other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves
<b>Eye Protection</b>	Safety glasses with side shields conforming to EN 166 Goggles
<b>Skin Protection</b>	Chemical resistant overalls Chemical resistant apron
<b>Protection and Hygiene</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product, Remove and wash contaminated clothing before re-use. Eye wash bottle with pure water.
<b>Engineering Measures</b>	Ensure good ventilation and appropriate local extraction.
<b>Environmental Exposure Controls</b>	Do not flush into surface water or sanitary sewer system.

### 9. PHYSICAL & CHEMICAL PROPERTIES: typical data

Appearance at 20°C	Amber to light brown mobile Liquid
Odour	Slight hydrocarbon
Boiling point range °C	>280C (typical)
Density at 15.6°C	0.860 – 0.880
Viscosity at 40°C	46cSt.(typical)
Flash Point (Abel)	>220C
Auto-ignition temperature (ASTM E659)	>250C
Explosion Limits	Not applicable
Oxidising properties	Not determined
pH	Not applicable
Benzene Content % m/m	Not applicable
Solubility in water	Insoluble
Solubility	Soluble in most solvents.
Partition coefficient: n-octanol/water	Not available
Vapour density (air = 1)	>5
Evaporation rate	Not determined
Pour Point	-30C.

### 10. STABILITY & REACTIVITY

Stability	Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use.
Hazardous decomposition products, which can be formed on heating	Emits toxic fumes (oxides of carbon, partially oxidised hydrocarbons, soot and dense smoke)
Incompatible materials	Strong oxidising agents
Conditions to avoid	Excessive heat.

### 11. TOXICOLOGICAL INFORMATION

General Information		
Acute toxicity	LD50 (oral, rat)	>5000mg/kg
	LC50 (inhalation, rat)	>5.3mg/l
	LD50 (skin, rabbit)	>5000mg/kg
Inhalation	In high concentrations, vapours may be irritating to the respiratory system.	
Skin contact	Repeated and/or prolonged skin contact may cause slight irritation, drying or cracking.	
Eye contact	Liquid or mist may cause discomfort and mild irritation/redness.	
Ingestion	May cause gastric disturbances (nausea, vomiting, stomach pain), irritation of the gastrointestinal tract.	
Chronic toxicity	Classification criteria have not been met based on available data	
Aspiration hazard	Classification criteria have not been met based on available data Viscosity $\geq 20.5 \text{ mm}^2/\text{s}$ at 40C.	
Sensitisation	Classification criteria have not been met based on available data.	
Carcinogenic effects	Classification criteria have not been met based on available data	
Mutagenicity	Classification criteria have not been met based on available data	
Reproductive toxicity	Classification criteria have not been met based on available data	
STOT – single exposure	Classification criteria have not been met based on available data	
STOT – repeated exposure	Classification criteria have not been met based on available data	

<b>12.ECOLOGICAL INFORMATION</b>	
Toxicity effects – Aquatic Environment	EC50: > 10,000mg/l – acute toxicity test on fresh-water invertebrates; <i>Daphnia magna</i> . 48h. .NOEL: 100mg/l – chronic toxicity test on invertebrates; <i>Daphnia magna</i> , 21 days EC50: >100mg/l – acute toxicity test on fresh-water algae; <i>Pseudokirchinella subcapitata</i> , 72h LC50: >100mg/l – acute toxicity test on fresh water fish: <i>pimephales promelas</i> , 96h. NO@JEL: >1000mg/l – chronic test on fresh-water fish; <i>Oncorhynchus mykiss</i> . QSAR, 28 days
Mobility in soil	Adsorption/desorption test – not applicable –UVCB substance.
Bio accumulation	Bioaccumulation is unlikely to be significant because of the low water solubility of this product..
Persistence and degradability	The product is expected to be inherently biodegradable.(OECD 301B 50% in 28 days)
Results of PBT and vPvB assessment	Not classified as PBT or vPvB according to Annex XIII
Aquatic toxicity	Water accommodated fractions (WAF) of Distillates (Petroleum ), Hydrotreated Heavy Paraffinic (64742-54-7) did not produce acute toxicity in fish :- (100 – 1000mg/l), fresh water algae (500 mg/l) or daphnia magna (10,000 mg/l) in 48 – 96 hour EL50 studies.
Other adverse effects	Product of very low volatility. Hydrocarbons of which this product is mainly composed have low tendency or no tendency to penetrate to the atmosphere. The product is practically insoluble in water and lighter than water. The product accumulates on the surface of the water, forming a film that hinders oxygen exchange. The product is limitedly dispersed in soil, it may penetrate into soil and contaminate surface waters,.

<b>13. DISPOSAL CONSIDERATIONS</b>	
Waste	Send to a Registered Waste Disposal Site using the services of a Registered Waste Disposal Contractor. Ensure conformance with local and national regulations.
Packaging	Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Ensure conformance with local and national regulations.
Specific Advice	Supplied material should be considered as Special Waste and Disposal should conform to the relevant Regulations.
General	Under no circumstances should this product be disposed of by flushing into surface water or sanitary sewer system.

<b>14.TRANSPORT INFORMATION</b>	
Hazardous for Transport.	None
Proper shipping name	Not applicable
UN-No.	Not classified according to the United Nation.
Class	Not applicable
Packaging Group	Not applicable
Special precautions for user	Not applicable.
Environmental hazards	Not classified as a marine pollutant.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.	Not applicable

**15. REGULATORY INFORMATION (Part A)**

Classification:	Not classified as dangerous for supply/use.	
Commercial Product Name	Hydraulic Oil ISO 46.	
Commercial name of the substance	Hydraulic Oil	
EC No.	Not applicable	
CAS No.	Not applicable	
Contains Symbols	Not applicable None	
Risk Phases:	None	
Safety Phases:	S24/25	Avoid contact with skin and eyes.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S27/28	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and detergent.
	S56	Dispose of this material and its container at hazardous or special waste collection point.
	S62/64	If swallowed, do not induce vomiting: rinse mouth with water (only if person is conscious) ;seek medical advice immediately and show this container/label.

**15. REGULATORY INFORMATION (Part B)**

CLP Classification	The product is not classified as dangerous in accordance with Directive 1272/2008/EEC	
CLP pictograms	none	
Signal word	Danger	
CLP Hazard statements	None	
CLP Precautionary statements		
Prevention	P262	Do not get in eyes, on skin, or on clothing.
	P280	Wear protective gloves/protective clothing/eye protection/face protection
Response	P301+310 +331	IF SWALLOWED: Rinse mouth. Do not induce vomiting
Response	P305+351 +338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
Response	P303+361 +353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse sin with water/shower
Storage	P405	Store locked up.
Disposal	P501	Dispose of contents/container to a Registered Waste Disposal Site using the services of a Registered Waste Disposal Contractor. Ensure conformance with local and national regulations.
Contains	Not applicable.	

**16. OTHER INFORMATION**

Text of R phrases mentioned in section 3.

None

H-statements components

None

Sources of key data used to compile the datasheet

<http://ecb.jrc.it>

Classification and labelling of petroleum substances according to EU dangerous substances directive (CONCAWE recommendations – June 2011)

This information is, to the best of Resapol's knowledge, correct and is intended to describe the product requirements. Since the conditions of use are outside Resapol's control any recommendations or suggestions are made without guarantee and Resapol disclaims any liability for loss or damage suffered from use of this information. Customers must satisfy themselves that the product is suitable for a particular purpose.

Further information can be found in Health & Safety Executive publications, a list of which can be made available from HSE Books – Tel:- 01787 881165

Guidance	COSHH Essentials and Chip for everyone. Consumer Protection Act. Environmental Protection Act COSHH Regulations CHIP regulations
Statutory instruments	The Health & Safety at Work Act 1974 Regulation (EC) N0. 1907/2006 (REACH) amendment to Directive 67/548/EEC Directive 98/24/EC Directive 999/45/EC