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Revision:	Date:	Change: Sections

1. PRODUCT INFORMATION	
Product Name	LOGCO Engine Oil 10w/40
Application	Mixed fleet engine oil
Company	Leeds Oil & Grease Co Ltd.
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2. HAZARDS	
This product should be handled in accordance with good industrial hygiene and safety practices.	
Health Hazard	No significant health hazards identified. (Eyes, skin, inhalation and ingestion)
Other Hazards	Low coefficient of friction presenting a slip hazard.
USED ENGINE OILS	
Used engine oil may contain hazardous components which have potential to cause skin cancer. (see section 11)	



3. COMPOSITION				
3.1 Mixed fleet engine oil.				
3.2 Dangerous Ingredients				
Zinc dialkyl dithiophosphate				
1 – 5%	 Irritant	 Dangerous for the environment	Xi: R36/38 N: R51/53	CAS Proprietary EC Proprietary Index No. Proprietary

4. FIRST AID MEASURES	
Inhalation	If inhalation of mist fumes or vapour causes irritation to the nose or throat or coughing remove to fresh air. If symptoms persist obtain medical advice.
Skin contact	Wash skin thoroughly using soap and water.
Eye contact	Rinse with plenty of water for at least 10 minutes and seek medical attention if symptoms persist.
Ingestion	Seek medical attention. DO NOT INDUCE VOMITING.

5. FIRE-FIGHTING MEASURES	
Extinguishing Media	Use carbon dioxide, foam or dry powder.
Not to be used	Direct water jet. (Use water only to keep fire exposed containers cool.)
Special fire fighting procedures	In the event of a large fire, self-contained breathing apparatus should be worn. Harmful products produced in a fire include oxides of carbon, phosphates and some metallic oxides.
WARNING	Heat from a fire could possibly result in drums bursting. Vapour may travel long distances to source of ignition.

6. ACCIDENTAL RELEASE MEASURES	
Contain and collect spillage with help of absorbent materials such as floor granules. Protect drains from potential spills to minimise contamination.	
Flash Point	205C
Auto Ignition Temperature	Not determined.
If spillage enters drains call Environment Agency Emergency hotline on 0800 807060.	
Product waste should be disposed of according to Item 13.	

7. HANDLING & STORAGE	
Handling	Precautions should be taken against skin and eye contact. Avoid inhalation of vapour mist or fume. Do not wear contaminated clothing. Wear safety shoes when handling containers. Wash hands thoroughly after using this product.
Storage	<p>Store away from sources of strong heat sparks and open flames and strong oxidising chemicals. Keep containers tightly closed in a cool dry, well ventilated place.</p> <p>Take precautionary measures to prevent spills into drains, soil or water. External tanks or stillage should be banded.</p> <p>Avoid direct sunlight.</p> <p>Avoid extremes of humidity.</p> <p>Recommended storage temperature 5C to 40C</p> <p>Storage life 12 months (minimum) in sealed original containers.</p> <p>Warehousing class B1(c)</p>

8. EXPOSURE CONTROLS & PERSONAL PROTECTION	
Engineering Measures	
Ensure good ventilation. Use protective equipment and/or local ventilation when needed. Avoid skin contact and inhalation of oil mist.	
Exposure Values	Comply with current local occupation exposure limit. It is recommended that mineral oil mists be kept below 5mg/m ³ (8hr T.W.A. value) EH40.
Protection and Hygiene	Wash hands before breaks and immediately after handling the product. Thoroughly clean contaminated skin and change dirty clothing and equipment.
Respiratory Protection	Oil Mist: respirator (combined particle and organic vapour filter type A2/P2)
Hand Protection	Protective gloves (PVC, Nitrile rubber.) For further information consult glove manufacturer for recommendations of glove type associated with your particular application. So that break through times can be assessed. Show this data sheet.
Eye Protection	Safety goggles if there is a risk of splashing.
Skin Protection	Protective clothing when needed.
 	

9. PHYSICAL & CHEMICAL PROPERTIES: typical data

Appearance at 20°C	Amber mobile liquid
Odour	Oily
Boiling point range	N/A
Density at 15.6C	0.887
Viscosity at 40C	100 cSt
Viscosity at 100C	13.3 cSt
Auto-ignition temperature (ASTM E659)	Not determined (Base oil approximately 346C)
Flash Point (Abel)	218C
Pour Point	-27C
Viscosity Index	140
Benzene Content % m/m	<0.1%
Solubility in water	Insoluble
Solubility	Soluble in non-polar solvents
Partition coefficient: n-octanol/water	Not determined
pH	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined
Evaporation rate	Not determined
Vapour pressure	Not determined
Vapour density	Not determined

10. STABILITY & REACTIVITY

Hazardous Reactions	Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use. Avoid strong oxidising agents.
Thermal Decomposition	This material is inherently combustible.
Hazardous polymerisation	Will not occur

11. TOXICOLOGICAL INFORMATION

Eyes	Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
Skin	Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.
Inhalation	At normal ambient temperatures is unlikely to cause inhalation hazard because of low volatility.
Ingestion	Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.
Acute Toxicity	The refined mineral base oils used in this formulation are of low order of toxicity. LD50(RAT) for base oil greater than 5g/kg
<u>USED ENGINE OIL</u>	Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained. Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea. At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful if inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition occurs. No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC) or the European Commission (EC).
Chronic toxicity (Carcinogenic effects)	

12. ECOLOGICAL INFORMATION

Mobility	Some components may penetrate the soil causing ground water contamination.
Degradability	Inherently but not readily biodegradable.
Bio accumulation	Leaching or penetration of mineral oils is generally regarded as resulting in long term persistence.
Aquatic toxicity	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Waste	Send for recycling 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 putting into drains, soil or watercourses.

14. TRANSPORT INFORMATION

Not classified as Hazardous for Transport.			
U.N. Number:	N/A	Packaging Group:	N/A
Shipping Number:	N/A	Marine Pollutant:	yes
IMO Class:	N/A	ICAO/IATA:	N/A
ADR/RID:	N/A	PSN	Engine Oil

15. REGULATORY INFORMATION

Label for supply:	
Risk Phases:	None
EU Regulations	Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.

16. OTHER INFORMATION

Concave Report No. 5/87 Health aspects of Lubricants.
 R Phases used in Section 3
 R36/38 Irritating to the skin and eyes.
 R51/53 Toxic to aquatic organisms, may cause long term adverse effects in aquatic environment.

This information is, to the best of Leeds Oil & Grease's knowledge, correct and is intended to describe the product requirements. Since the conditions of use are outside Leeds Oil & Grease control any recommendations or suggestions are made without guarantee and Pick Quick Service 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) NO. 1907/2006 (REACH) amendment to Directive 67/548/EEC Directive 98/24/EC Directive 99/45/EC