

Lucas Oil Products UK (MT)

Part Number: **47028, 47029, 47030, 47031** Version No: **1**,**1**

Other means of identification

Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

Issue Date: **16/04/2024** Print Date: **17/04/2024** S.REACH.MLT.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

1.1. Product Identifier Product name Lucas Oil Synthetic 5W-30 ECO-FD Engine Oil Chemical Name Not Applicable Synonyms Mixture Chemical formula Not Applicable

1.2. Relevant identified uses of the substance or mixture and uses advised against

Not Available

Product Category Consumer	PC24 Lubricants, greases, release products
Relevant identified uses	Use according to manufacturer's directions.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Lucas Oil Products UK (MT)	Lucas Oil Products Europe Ltd
Address	Unit 4 Cunliffe Drive Llangefni Industrial Estate LL77 7JA Llangefni Great Britain	Block 3 Harcourt Centre Dublin 2 Ireland
Telephone	+44 (0) 1248 723 666	+44 344 225 5400
Fax	Not Available	Not Available
Website	www.lucasoil.co.uk	www.lucasoil.eu.com
Email	Info@LucasOil.co.uk	info@lucasoil.eu.com

1.4. Emergency telephone number

Association / Organisation	Medicines & Poisons Info Office	ChemTel
Emergency telephone numbers	+356 2545 6508	1-800-255-3924 (USA, Canada, Puerto Rico, US V.I.)
Other emergency telephone numbers	Not Available	+1-813-248-0585 (International)

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments ^[1]	Not Applicable
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2.2. Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Hazard statement(s)

Not Applicable

Supplementary statement(s)

EUH208 Contains (C14-16-18)alkylphenol, Molybdenum polysulphide long chain alkyl dithiocarbamate complex. May produce an allergic reaction.

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Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

Material contains paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346), paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346), paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346), paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346).

2.3. Other hazards

May produce skin discomfort*.

paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)
paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)
paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)
paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)
paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Determined to have endocrine-disrupting properties according to Europe Regulation (EU) 528/2012, Europe Regulation (EU) 2017/2100, and Europe Regulation (EU) 2018/605
paraffinic distillate, heavy, solvent-dewaxed (severe). (DMSO <3% w/w by IP 346)	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)
paraffinic distillate, heavy, solvent-dewaxed (severe). (DMSO <3% w/w by IP 346)	Determined to have endocrine-disrupting properties according to Europe Regulation (EU) 528/2012, Europe Regulation (EU) 2017/2100, and Europe Regulation (EU) 2018/605
lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346)	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)

SECTION 3 Composition / information on ingredients

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M- Factor	Nanoform Particle Characteristics
1. 64742-54-7.* 2.265-157-1 3.649-467-00-8 4.Not Available	0-90	paraffinic distillate, heavy <u>.</u> hydrotreated (severe) (DMSO <3% w/w by IP 346)	Aspiration Hazard Category 1; H304 ^[1]	Not Available	Not Available
1. 64742-55-8.* 2.265-158-7 3.649-468-00-3 4.Not Available	0-90	paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Aspiration Hazard Category 1; H304 ^[1]	Not Available	Not Available
1. 64742-56-9.* 2.265-159-2 3.649-469-00-9 4.Not Available	0-90	<u>paraffinic distillate, light, solvent- dewaxed (severe) (DMSO <3% w/w by IP 346)</u>	Aspiration Hazard Category 1; H304 ^[1]	Not Available	Not Available
1. 64742-65-0.* 2.265-169-7 3.649-474-00-6 4.Not Available	0-90	paraffinic distillate, heavy, solvent- dewaxed (severe) (DMSO <3% w/w by IP 346) ^[e]	Aspiration Hazard Category 1; H304 ^[1]	Not Available	Not Available
1. 64742-70-7.* 2.265-174-4 3.649-477-00-2 4.Not Available	0-90	p <u>araffinic distillate, heavy, solvent- dewaxed (severe), (DMSO <3% w/w by IP 346) ^[e]</u>	Aspiration Hazard Category 1; H304 ^[1]	Not Available	Not Available
1. 72623-87-1* 2.276-738-4 3.649-483-00-5	0-90	lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346)	Aspiration Hazard Category 1; H304 ^[1]	Not Available	Not Available

1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M- Factor	Nanoform Particle Characteristics
4.Not Available					
1. 1190625-94-5* 2.Not Available 3.Not Available 4.Not Available	<3	(C14-16-18)alkylphenol	Sensitisation (Skin) Category 1B, Specific Target Organ Toxicity - Repeated Exposure Category 2; H317, H373 ^[1]	Not Available	Not Available
1. 28629-66-5* 2.249-109-7 3.Not Available 4.Not Available	<2.5	zinc O.O-bis(isooctyl)dithiophosphate	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the Aquatic Environment Long- Term Hazard Category 2; H315, H318, H411 [1]	Not Available	Not Available
1. Not Available 2.Not Available 3.Not Available 4.Not Available	<0.3	Molybdenum polysulphide long chain alkyl dithiocarbamate complex	Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 3; H315, H317, H412 ^[1]	Not Available	Not Available
Legend:		ed by Chemwatch; 2. Classification drawn ailable; [e] Substance identified as having	from Regulation (EU) No 1272/2008 - Annex VI; 3. endocrine disrupting properties	Classification of	drawn from C&L * EU

SECTION 4 First aid measures

4.1. Description of first aid measures

Eye Contact	 If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

5.3. Advice for firefighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit irritating/ toxic fumes. May emit acrid smoke. Mists containing combustible materials may be explosive. May emit poisonous fumes. May emit corrosive fumes.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions. DO NOT allow clothing wet with material to stay in contact with skin 	
Fire and explosion protection	See section 5	
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. 	

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Dermal 0.97 mg/kg bw/day (Systemic, Chronic) Inhalation 2.73 mg/m ³ (Systemic, Chronic) Inhalation 5.58 mg/m ³ (Local, Chronic) Oral 0.74 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.19 mg/m ³ (Local, Chronic) *	9.33 mg/kg food (Oral)
(C14-16-18)alkylphenol	Dermal 0.3 mg/kg bw/day (Systemic, Chronic) Inhalation 1.17 mg/m³ (Systemic, Chronic)	0.1 mg/L (Water (Fresh)) 1 mg/L (Water - Intermittent release) 0.01 mg/L (Water (Marine)) 4266.16 mg/kg sediment dw (Sediment (Fresh Water)) 426.62 mg/kg sediment dw (Sediment (Marine)) 852.58 mg/kg soil dw (Soil) 100 mg/L (STP) 3.3 mg/kg food (Oral)
zinc O,O- bis(isooctyl)dithiophosphate	Dermal 9.29 mg/kg bw/day (Systemic, Chronic) Inhalation 6.55 mg/m³ (Systemic, Chronic) Dermal 4.65 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.61 mg/m³ (Systemic, Chronic) * Oral 0.19 mg/kg bw/day (Systemic, Chronic) *	4 μg/L (Water (Fresh)) 38 μg/L (Water - Intermittent release) 4.6 μg/L (Water (Marine)) 0.144 mg/kg sediment dw (Sediment (Fresh Water)) 0.014 mg/kg sediment dw (Sediment (Marine)) 0.026 mg/kg soil dw (Soil) 3 mg/L (STP) 8.33 mg/kg food (Oral)
paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Dermal 0.97 mg/kg bw/day (Systemic, Chronic) Inhalation 2.73 mg/m ³ (Systemic, Chronic) Inhalation 5.58 mg/m ³ (Local, Chronic) Oral 0.74 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.19 mg/m ³ (Local, Chronic) *	9.33 mg/kg food (Oral)
paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Dermal 0.97 mg/kg bw/day (Systemic, Chronic) Inhalation 2.73 mg/m ³ (Systemic, Chronic) Inhalation 5.58 mg/m ³ (Local, Chronic) Oral 0.74 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.19 mg/m ³ (Local, Chronic) *	9.33 mg/kg food (Oral)
paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Dermal 0.97 mg/kg bw/day (Systemic, Chronic) Inhalation 2.73 mg/m ³ (Systemic, Chronic) Inhalation 5.58 mg/m ³ (Local, Chronic) Oral 0.74 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.19 mg/m ³ (Local, Chronic) *	9.33 mg/kg food (Oral)
paraffinic distillate, heavy, solvent-dewaxed (severe). (DMSO <3% w/w by IP 346)	Dermal 0.97 mg/kg bw/day (Systemic, Chronic) Inhalation 2.73 mg/m ³ (Systemic, Chronic) Inhalation 5.58 mg/m ³ (Local, Chronic) Oral 0.74 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.19 mg/m ³ (Local, Chronic) *	9.33 mg/kg food (Oral)
lubricating oils, petroleum C20- 50, hydrotreated neutral (DMSO <3% w/w by IP 346)	Dermal 0.97 mg/kg bw/day (Systemic, Chronic) Inhalation 2.73 mg/m ³ (Systemic, Chronic) Inhalation 5.58 mg/m ³ (Local, Chronic) Oral 0.74 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.19 mg/m ³ (Local, Chronic) *	9.33 mg/kg food (Oral)

* Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available Not Available Not Available Not Available Not Available Not Available	Source	Ingredient	Material name	TWA	STEL	Peak	Notes
	Not Available	NOLAVAIIADIE	INULAVAIIADIE	NULAVAIIADIE		Not Available	Not Available

Not Applicable

Emergency Limits			
Ingredient	TEEL-1	TEEL-2	TEEL-3
paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	140 mg/m3	1,500 mg/m3	8,900 mg/m3
paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346)	140 mg/m3	1,500 mg/m3	8,900 mg/m3
paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	140 mg/m3	1,500 mg/m3	8,900 mg/m3
paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	140 mg/m3	1,500 mg/m3	8,900 mg/m3
paraffinic distillate, heavy, solvent-dewaxed (severe). (DMSO <3% w/w by IP 346)	140 mg/m3	1,500 mg/m3	8,900 mg/m3

Ingredient	TEEL-1	TEEL-2		TEEL-3
lubricating oils, petroleum C20- 50, hydrotreated neutral (DMSO <3% w/w by IP 346)	140 mg/m3	1,500 mg/m3		8,900 mg/m3
Ingredient	Original IDLH		Revised IDLH	
paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	2,500 mg/m3		Not Available	
(C14-16-18)alkylphenol	Not Available		Not Available	
zinc O,O- bis(isooctyl)dithiophosphate	Not Available		Not Available	
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	Not Available		Not Available	
paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346)	2,500 mg/m3		Not Available	
paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	2,500 mg/m3		Not Available	
paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	2,500 mg/m3		Not Available	
paraffinic distillate, heavy, solvent-dewaxed (severe). (DMSO <3% w/w by IP 346)	2,500 mg/m3		Not Available	
lubricating oils, petroleum C20- 50, hydrotreated neutral (DMSO <3% w/w by IP 346)	2,500 mg/m3		Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
(C14-16-18)alkylphenol	E	≤ 0.01 mg/m³
zinc O,O- bis(isooctyl)dithiophosphate	E	≤ 0.01 mg/m³
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	E	≤ 0.1 ppm
Notes:	Occupational exposure banding is a process of assigning chemicals intr adverse health outcomes associated with exposure. The output of this p to a range of exposure concentrations that are expected to protect work	process is an occupational exposure band (OEB), which corresponds

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Engineering controls are used to remove a hazard or place a can be highly effective in protecting workers and will typically. The basic types of engineering controls are: Process controls which involve changing the way a job activ Enclosure and/or isolation of emission source which keeps a strategically "adds" and "removes" air in the work environme design of a ventilation system must match the particular pro- Employers may need to use multiple types of controls to pre General exhaust is adequate under normal operating conditi essential to obtain adequate protection. Provide adequate we the workplace possess varying "escape" velocities which, in effective promoted to a content of the content operations of the section	y be independent of worker interactions to provide this hig ity or process is done to reduce the risk. a selected hazard "physically" away from the worker and v ent. Ventilation can remove or dilute an air contaminant if o cess and chemical or contaminant in use. event employee overexposure. ions. If risk of overexposure exists, wear SAA approved re entilation in warehouse or closed storage areas. Air conta	h level of protection. rentilation that designed properly. The espirator. Correct fit is minants generated in
	effectively remove the contaminant. Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s (50- 100 f/min)
	aerosols, fumes from pouring operations, intermittent cont spray drift, plating acid fumes, pickling (released at low ve		0.5-1 m/s (100- 200 f/min.)
	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200- 500 f/min)
	grinding, abrasive blasting, tumbling, high speed wheel ge of very high rapid air motion).	enerated dusts (released at high initial velocity into zone	2.5-10 m/s (500- 2000 f/min.)
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood - local control only	

	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.
8.2.2. Individual protection measures, such as personal protective equipment	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear astery footwear or safety gumbools, e.g. Rubber The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried throoughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and durability of glove type is dependent on usage. Important factors in the selection of gloves include: idevicity glove thickness and device tigves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When notionged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Orntaminated gloves should be replaced. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves shold be
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

	· ·		
Appearance	Amber Clear and Bright Oil		
Physical state	Liquid	Relative density (Water = 1)	0.849
Odour	Not Available	Partition coefficient n-octanol / water	Not Available

Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	-36	Viscosity (cSt)	52.1 @ 40°C
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	215	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity	See section 7.2
10.2. Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhaled		ffects or irritation of the respiratory tract (as classified by EC Directives using animal that exposure be kept to a minimum and that suitable control measures be used in an
Ingestion	The material has NOT been classified by EC Directives of corroborating animal or human evidence.	or other classification systems as "harmful by ingestion". This is because of the lack
Skin Contact	following entry through wounds, lesions or abrasions. There is some evidence to suggest that this material car Open cuts, abraded or irritated skin should not be expos	abrasions or lesions, may produce systemic injury with harmful effects. Examine the
Eye	Although the liquid is not thought to be an irritant (as cla discomfort characterised by tearing or conjunctival reduc	ssified by EC Directives), direct contact with the eye may produce transient ess (as with windburn).
Chronic		o produce cumulative health effects involving organs or biochemical systems. ure can lead to eczema, inflammation of hair follicles, pigmentation of the face and
	warts on the soles of the feet.	
Lucas Oil Synthetic 5W-30		IRRITATION
Lucas Oil Synthetic 5W-30 ECO-FD Engine Oil	warts on the soles of the feet.	
ECO-FD Engine Oil	warts on the soles of the feet.	IRRITATION
ECO-FD Engine Oil paraffinic distillate, heavy, hydrotreated (severe) (DMSO	warts on the soles of the feet. TOXICITY Not Available	IRRITATION Not Available
ECO-FD Engine Oil	warts on the soles of the feet. TOXICITY Not Available TOXICITY	IRRITATION Not Available IRRITATION
ECO-FD Engine Oil paraffinic distillate, heavy, hydrotreated (severe) (DMSO	warts on the soles of the feet. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >5000 mg/kg ^[2]	IRRITATION Not Available IRRITATION Eye: no adverse effect observed (not irritating) ^[1]
ECO-FD Engine Oil paraffinic distillate, heavy, hydrotreated (severe) (DMSO	warts on the soles of the feet. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >5000 mg/kg ^[2] Oral (Rat) LD50: >15000 mg/kg ^[2]	IRRITATION Not Available IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1]

	ΤΟΧΙΟΙΤΥ	IRRITATION			
zinc O,O-	Dermal (rabbit) LD50: >3000 mg/kg * ^[2]	Eye: adverse effect observed (irritating) ^[1]			
bis(isooctyl)dithiophosphate	Inhalation (Rat) LC50: >0.52 mg/ml * ^[2]	Skin: adverse effect observed (irritating) ^[1]			
	Oral (Rat) LD50: 3750 mg/kg * ^[2]				
Molybdenum polysulphide	тохісіту	IRRITATION			
long chain alkyl dithiocarbamate complex	Not Available	Not Available			
	ΤΟΧΙΟΙΤΥ	IRRITATION			
paraffinic distillate, light, hydrotreated (severe) (DMSO	Oral (Rat) LD50: >5000 mg/kg * ^[2]	Eye: no adverse effect observed (not irritating) ^[1]			
<3% w/w by IP 346)		Skin: no adverse effect observed (not irritating) ^[1]			
	тохісіту	IRRITATION			
paraffinic distillate, light, solvent-dewaxed (severe)	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]			
(DMSO <3% w/w by IP 346)	Inhalation (Rat) LC50: 2.18 mg/l4h ^[2]	Skin: no adverse effect observed (not irritating) ^[1]			
	Oral (Rat) LD50: >5000 mg/kg ^[2]				
	тохісіту	IRRITATION			
paraffinic distillate, heavy,	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]			
solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Inhalation (Rat) LC50: 2.18 mg/l4h ^[2]	Skin: no adverse effect observed (not irritating) ^[1]			
	Oral (Rat) LD50: >5000 mg/kg ^[2]				
	ΤΟΧΙΟΙΤΥ				
paraffinic distillate, heavy,	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	IRRITATION Eye: no adverse effect observed (not irritating) ^[1]			
solvent-dewaxed (severe).	Inhalation (Rat) LC50: 2.18 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]			
(DMSO <3% w/w by IP 346)	Oral (Rat) LD50: >5000 mg/kg ^[1]				
lubricating oils, petroleum	тохісіту	IRRITATION			
C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346)	Oral (Rat) LD50: >5000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]			
		Skin: no adverse effect observed (not irritating) ^[1]			
Legend:	, š	toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise			
	specified data extracted from RTECS - Register of Toxic Effect of che	mical Substances			
(C14-16-18)alkylphenol	The following information refers to contact allergens as a group and m Contact allergies quickly manifest themselves as contact eczema, mo contact eczema involves a cell-mediated (T lymphocytes) immune rea urticaria, involve antibody-mediated immune reactions. The significan potential: the distribution of the substance and the opportunities for co which is widely distributed can be a more important allergen than one contact. From a clinical point of view, substances are noteworthy if the tested.	re rarely as urticaria or Quincke's oedema. The pathogenesis of action of the delayed type. Other allergic skin reactions, e.g. contact ce of the contact allergen is not simply determined by its sensitisation ontact with it are equally important. A weakly sensitising substance with stronger sensitising potential with which few individuals come into			
zinc O,O- bis(isooctyl)dithiophosphate	*IUCLID Dossier The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Dithiophosphate alkyl esters is corrosive and toxic to the tissues on skin or oral exposure depending on its concentration. Symptoms included diarrhoea, skin and gastrointestinal irritation, lethargy, reduced food intake, staining about the nose and eye; occasionally, there was drooping of the eyelid, hair standing up, inco-ordination and salivation. Toxicity is reduced following inhalation (due to vapour pressure and high viscosity). It may produce reproductive, developmental and genetic toxicity on experimental animals, but no substantive data is available to establish effect on humans.				
paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346)	* Q8 MSDS				
lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346)	For unrefined and mildly refined distillate base oils: Acute toxicity: Animal testing showed high semilethal doses of >5000 mg/kg body weight and >2 g/kg body weight for exposure by swallowing or skin contact, respectively. The same material was also reported to be moderately irritating to skin, while not being sensitizing. Repeat dose toxicity: Animal testing showed that repeat dose toxicity was mild to moderate to the skin. Reproductive / developmental toxicity: No studies on developmental toxicity or reproduction are available. Animal testing shows that high doses may reduce the body weight of both the mother and the foetus, and increase the rate of soft tissue malformations. Genetic toxicity: These oils have been found to cause mutations. Cancer-causing potential: The general conclusion that can be drawn from animal testing is that these oils may potentially cause skin cancer; however, they have not been found to be associated with an increase in tumours elsewhere in the body.				
Lucas Oil Synthetic 5W-30 ECO-FD Engine Oil & paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346) & paraffinic distillate, light,	The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives; The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since: • The adverse effects of these materials are associated with undesirable components, and • The levels of the undesirable components are inversely related to the degree of processing; • Distillate base oils receiving the same degree or extent of processing will have similar toxicities; • The potential toxicity of residual base oils is independent of the degree of processing the oil receives.				

hydrotreated (severe) (DMSO The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing. Unrefined & mildly refined distillate base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon <3% w/w by IP 346) & paraffinic distillate, light, molecules and have shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base solvent-dewaxed (severe) oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined (DMSO <3% w/w by IP 346) & and mildly refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have paraffinic distillate, heavy, demonstrated very low mammalian toxicity. Testing of residual oils for mutation-causing and cancer-causing potential has shown negative solvent-dewaxed (severe) results, supporting the belief that these materials lack biologically active components or the components are largely non-bioavailable due to (DMSO <3% w/w by IP 346) & their molecular size. paraffinic distillate, heavy, Toxicity testing has consistently shown that lubricating base oils have low acute toxicities. Numerous tests have shown that a lubricating solvent-dewaxed (severe). base oil s mutagenic and carcinogenic potential correlates with its 3-7 ring polycyclic aromatic compound (PAC) content, and the level of (DMSO <3% w/w by IP 346) & DMSO extractables (e.g. IP346 assay), both characteristics that are directly related to the degree/conditions of processing. lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346) paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346) & For highly and severely refined distillate base oils: paraffinic distillate, light, In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal dose by skin contact is >2g/kg body weight. The hydrotreated (severe) (DMSO semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-irritating" to "moderately irritating" when <3% w/w by IP 346) & tested for skin and eye irritation. Testing for sensitisation has been negative. The effects of repeated exposure vary by species; in animals, paraffinic distillate, light, effects to the testes and lung have been observed, as well as the formation of granulomas. In animals, these substances have not been solvent-dewaxed (severe) found to cause reproductive toxicity or significant increases in birth defects. They are also not considered to cause cancer, mutations or (DMSO <3% w/w by IP 346) & chromosome aberrations. paraffinic distillate, heavy, The substance is classified by IARC as Group 3: solvent-dewaxed (severe) NOT classifiable as to its carcinogenicity to humans. (DMSO <3% w/w by IP 346) & Evidence of carcinogenicity may be inadequate or limited in animal testing. paraffinic distillate, heavy, solvent-dewaxed (severe). (DMSO <3% w/w by IP 346) (C14-16-18)alkylphenol & zinc 0.0bis(isooctyl)dithiophosphate & paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346) & paraffinic distillate, light, solvent-dewaxed (severe) No significant acute toxicological data identified in literature search. (DMSO <3% w/w by IP 346) & paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) & paraffinic distillate, heavy, solvent-dewaxed (severe). (DMSO <3% w/w by IP 346) Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of nparaffinic distillate, heavy, paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely solvent-dewaxed (severe) to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins. (DMSO <3% w/w by IP 346) & The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic paraffinic distillate, heavy. hydrocarbons are ingested in association with fats in the diet. Some hydrocarbons may appear unchanged as in the lipoprotein particles in solvent-dewaxed (severe). the gut lymph, but most hydrocarbons partly separate from fats and undergo metabolism in the gut cell. The gut cell may play a major role in (DMSO <3% w/w by IP 346) determining the proportion of hydrocarbon that becomes available to be deposited unchanged in peripheral tissues such as in the body fat stores or the liver. Acute Toxicity × Carcinogenicity × Skin Irritation/Corrosion × Reproductivity × Serious Eye × STOT - Single Exposure × Damage/Irritation Respiratory or Skin × × STOT - Repeated Exposure sensitisation Mutagenicity × × Aspiration Hazard Legend: - Data either not available or does not fill the criteria for classification - Data available to make classification

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

Many chemicals may mimic or interfere with the body s hormones, known as the endocrine system. Endocrine disruptors are chemicals that can interfere with endocrine (or hormonal) systems.

Endocrine disruptors interfere with the synthesis, secretion, transport, binding, action, or elimination of natural hormones in the body. Any system in the body controlled by hormones can be derailed by hormone disruptors. Specifically, endocrine disruptors may be associated with the development of learning disabilities, deformations of the body various cancers and sexual development problems.

Endocrine disrupting chemicals cause adverse effects in animals. But limited scientific information exists on potential health problems in humans. Because people are typically exposed to multiple endocrine disruptors at the same time, assessing public health effects is difficult.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

Lucas Oil Synthetic 5W-30	Endpoint	Test Duration (hr)	Species	Value	Source
ECO-FD Engine Oil	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
paraffinic distillate, heavy,	ErC50	72h	Algae or other aquatic plants	>1000mg/l	1
ydrotreated (severe) (DMSO	NOEC(ECx)	504h	Crustacea	>1mg/l	1
<3% w/w by IP 346)	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
	EC50	48h	Crustacea	>1000mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Sourc
(C14-16-18)alkylphenol	EC50	48h	Crustacea	>100mg/l	2
	EC50(ECx)	24h	Crustacea	>100mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
zinc 0,0-	LC50	96h	Fish	1- 5mg/l	Not Availabl
is(isooctyl)dithiophosphate	NOEC(ECx)	48h	Crustacea	<1mg/l	1
	EC50	48h	Crustacea	1- 1.5mg/l	Not Availabl
Molybdenum polysulphide	Endpoint	Test Duration (hr)	Species	Value	Source
long chain alkyl dithiocarbamate complex	Not Available	Not Available	Not Available	Not Available	Not Availabl
paraffinic distillate, light,	Endpoint	Test Duration (hr)	Species	Value	Source
ydrotreated (severe) (DMSO	NOEC(ECx)	504h	Crustacea	>1mg/l	1
<3% w/w by IP 346)	EC50	48h	Crustacea	>1000mg/l	1
paraffinic distillate, light,	Endpoint	Test Duration (hr)	Species	Value	Source
solvent-dewaxed (severe)	NOEC(ECx)	504h	Crustacea	>1mg/l	1
(DMSO <3% w/w by IP 346)	EC50	48h	Crustacea	>1000mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Source
paraffinic distillate, heavy,	ErC50	72h	Algae or other aquatic plants	>1000mg/l	1
solvent-dewaxed (severe)	NOEC(ECx)	504h	Crustacea	>1mg/l	1
(DMSO <3% w/w by IP 346)	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
	EC50	48h	Crustacea	>1000mg/l	1
paraffinic distillate, heavy,	Endpoint	Test Duration (hr)	Species	Value	Source
solvent-dewaxed (severe). (DMSO <3% w/w by IP 346)	Not Available	Not Available	Not Available	Not Available	Not Availabl
lubricating oils, petroleum	Endpoint	Test Duration (hr)	Species	Value	Source
20-50, hydrotreated neutral	NOEC(ECx)	504h	Crustacea	>1mg/l	1
(DMSO <3% w/w by IP 346)	EC50	48h	Crustacea	>1000mg/l	1
Legend:			CHA Registered Substances - Ecotoxicological Informa C Aquatic Hazard Assessment Data 6. NITE (Japan) - I		

DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	
12.3. Bioaccumulative potential			
Ingredient	Bioaccumulation		

zinc O,O- bis(isooctyl)dithiophosphate	LOW (BCF = 100)

12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

12.5. Results of PBT and vPvB assessment

	Р	В	т
Relevant available data	Not Available	Not Available	Not Available
PBT	×	×	×
vPvB	×	×	×
PBT Criteria fulfilled?	No		
vPvB	No		

12.6. Endocrine disrupting properties

The evidence linking adverse effects to endocrine disruptors is more compelling in the environment than it is in humans. Endocrine distruptors profoundly alter reproductive physiology of ecosystems and ultimately impact entire populations. Some endocrine-disrupting chemicals are slow to break-down in the environment. That characteristic makes them potentially hazardous over long periods of time. Some well established adverse effects of endocrine disruptors in various wildlife species include; eggshell-thinning, displayed of characteristics of the opposite sex and impaired reproductive development. Other adverse changes in wildlife species that have been suggested, but not proven include; reproductive abnormalities, immune dysfunction and skeletal deformaties.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

13.1. Waste treatment methods	i de la constante de la constan
Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: • Reduction • Reuse • Recycling • Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. • DO NOT allow wash water from cleaning or process equipment to enter drains. • It may be necessary to collect all wash water for treatment before disposal. • In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. • Where in doubt contact the responsible authority. • Recycle wherever possible or consult manufacturer for recycling options. • Consult State Land Waste Management Authority for disposal. • Bury residue in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 Transport information

Labels Required	
Marine Pollutant	NO

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1.	UN number or ID number	Not Applicable				
14.2.	UN proper shipping name	Not Applicable	Not Applicable			
14.3.	Transport hazard class(es)	Class Subsidiary Hazard	Not Appl Not Appl			
14.4.	Packing group	Not Applicable				
14.5.	Environmental hazard	Not Applicable				
		Hazard identification	(Kemler)	Not Applicable		
		Classification code		Not Applicable		
14.6.	Special precautions for	Hazard Label		Not Applicable		
	user	Special provisions		Not Applicable		
		Limited quantity		Not Applicable		
		Tunnel Restriction C	ode	Not Applicable		

Continued...

Lucas Oil Synthetic 5W-30 ECO-FD Engine Oil

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subsidiary Hazard ERG Code	Not Applicable Not Applicable Not Applicable		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for	Passenger and Cargo Packing Instructions		Not Applicable	
user	Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo Limited Qu	Passenger and Cargo Limited Quantity Packing Instructions		
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable	

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	lot Applicable				
14.2. UN proper shipping name	Not Applicable					
14.3. Transport hazard class(es)	IMDG Class	Not Applicable				
	IMDG Subsidiary Haza	Ind Not Applicable				
14.4. Packing group	Not Applicable					
14.5 Environmental hazard	Not Applicable					
14.6. Special precautions for user	Special provisions	Not Applicable Not Applicable				

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	lot Applicable					
14.2. UN proper shipping name	Not Applicable	Not Applicable					
14.3. Transport hazard class(es)	Not Applicable No	Not Applicable Not Applicable					
14.4. Packing group	Not Applicable	Not Applicable					
14.5. Environmental hazard	Not Applicable	Not Applicable					
	Classification code	lot Applicable					
14.6. Special precautions for user	Limited quantity	Not Applicable					
	Equipment required	lot Applicable					
	Fire cones number	lot Applicable					

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Not Available
(C14-16-18)alkylphenol	Not Available
zinc O,O- bis(isooctyl)dithiophosphate	Not Available
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	Not Available
paraffinic distillate, light, hydrotreated (severe) (DMSO	Not Available

Product name	Group
<3% w/w by IP 346)	
paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Not Available
paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Not Available
paraffinic distillate, heavy, solvent-dewaxed (severe). (DMSO <3% w/w by IP 346)	Not Available
lubricating oils, petroleum C20- 50, hydrotreated neutral (DMSO <3% w/w by IP 346)	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Not Available
(C14-16-18)alkylphenol	Not Available
zinc O,O- bis(isooctyl)dithiophosphate	Not Available
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	Not Available
paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Not Available
paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Not Available
paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Not Available
paraffinic distillate, heavy, solvent-dewaxed (severe). (DMSO <3% w/w by IP 346)	Not Available
lubricating oils, petroleum C20- 50, hydrotreated neutral (DMSO <3% w/w by IP 346)	Not Available

SECTION 15 Regulatory information

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: Category 1 B

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

(C14-16-18)alkylphenol is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

zinc 0,0-bis(isooctyl)dithiophosphate is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

Molybdenum polysulphide long chain alkyl dithiocarbamate complex is found on the following regulatory lists

Not Applicable

paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: Category 1 B Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

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Lucas Oil Synthetic 5W-30 ECO-FD Engine Oil

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: Category 1 B Europe EC Inventory European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: Category 1 B Europe EC Inventory European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic paraffinic distillate, heavy, solvent-dewaxed (severe). (DMSO <3% w/w by IP 346) is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: Category 1 B Europe EC Inventory European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346) is found on the following regulatory lists Chemical Footprint Project - Chemicals of High Concern List EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: Category 1 B Europe EC Inventory European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic Additional Regulatory Information Not Applicable This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs. Information according to 2012/18/EU (Seveso III): Seveso Category Not Available 15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	No ((C14-16-18)alkylphenol)
Canada - DSL	No ((C14-16-18)alkylphenol)
Canada - NDSL	No (paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346); (C14-16-18)alkylphenol; zinc O,O- bis(isooctyl)dithiophosphate; paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346); paraffinic distillate, light, solvent- dewaxed (severe) (DMSO <3% w/w by IP 346); paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346); paraffinic distillate, heavy, solvent-dewaxed (severe). (DMSO <3% w/w by IP 346); lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346))
China - IECSC	No ((C14-16-18)alkylphenol)
Europe - EINEC / ELINCS / NLP	No ((C14-16-18)alkylphenol)
Japan - ENCS	Yes
Korea - KECI	No ((C14-16-18)alkylphenol)
New Zealand - NZIoC	No ((C14-16-18)alkylphenol)
Philippines - PICCS	No ((C14-16-18)alkylphenol)
USA - TSCA	No ((C14-16-18)alkylphenol)

National Inventory	Status
Taiwan - TCSI	No ((C14-16-18)alkylphenol)
Mexico - INSQ	No ((C14-16-18)alkylphenol; zinc O,O-bis(isooctyl)dithiophosphate; paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346); paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346); paraffinic distillate, heavy, solvent-dewaxed (severe). (DMSO <3% w/w by IP 346); lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346))
Vietnam - NCI	Yes
Russia - FBEPH	No ((C14-16-18)alkylphenol; paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346); lubricating oils, petroleum C20- 50, hydrotreated neutral (DMSO <3% w/w by IP 346))
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	16/04/2024
Initial Date	17/04/2024

Full text Risk and Hazard codes

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

Definitions and abbreviations

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit.
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AllC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas NOL NUMERA DE SUSTANCIAS DE SUSTAN
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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Lucas Oil Synthetic 5W-30 ECO-FD Engine Oil

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
, EUH208	Expert judgement

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