

Lucas Oil Products UK (MT)

Part Number: **47040**, **47041**, **47042**, **47043** Version No: **1**,**1**

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

Issue Date: 23/04/2024 Print Date: 23/04/2024 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-40 A3/B4 Engine Oil
Chemical Name	Not Applicable
Synonyms	Mixture
Chemical formula	Not Applicable
Other means of identification	Not Available

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

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

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments ^[1]	H412 - Hazardous to the Aquatic Environment Long-Term Hazard Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

2.2. Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Hazard statement(s)

H412

Harmful to aquatic life with long lasting effects.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P273 Avoid release to the environment.

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Material contains zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate.

2.3. Other hazards

Cumulative effects may result following exposure*.

May produce skin discomfort*.

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

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. 84605-29-8* 2.283-392-8 3.Not Available 4.Not Available	0.3-1.5	zinc O.O-bis(1.3-dimethylbutyl & isopropyl)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	0.3-1.5	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	Hazardous to the Aquatic Environment Long- Term Hazard Category 4; H413 ^[1]	Not Available	Not Available
Legend:		d by Chemwatch; 2. Classification dra ailable; [e] Substance identified as hav	wn from Regulation (EU) No 1272/2008 - Annex VI; 3. ving 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.

Page 3 of 12

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 suspected to be hot. Cool fire exposed 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 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. 	
		Continue

Page 4 of 12

Lucas Oil Synthetic 5W-40 A3/B4 Engine Oil

• 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

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate	Dermal 12.1 mg/kg bw/day (Systemic, Chronic) Inhalation 8.31 mg/m³ (Systemic, Chronic) Dermal 6.1 mg/kg bw/day (Systemic, Chronic) * Inhalation 2.11 mg/m³ (Systemic, Chronic) * Oral 0.24 mg/kg bw/day (Systemic, Chronic) *	4 μg/L (Water (Fresh)) 45 μg/L (Water - Intermittent release) 4.6 μg/L (Water (Marine)) 0.022 mg/kg sediment dw (Sediment (Fresh Water)) 0.002 mg/kg soil dw (Soil) 100 mg/L (STP) 10.67 mg/kg food (Oral)

* Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

Not Applicable

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
Lucas Oil Synthetic 5W-40 A3/B4 Engine Oil	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate	Not Available		Not Available	
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	Not Available		Not Available	
Occupational Exposure Bandin	g		°	
				- · · · · ·

Ingredient Occupational Exposure Band Rating Occupational Exposure Band Limit zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate E ≤ 0.01 mg/m³ Notes: Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

8.2. Exposure controls

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8.2.1. Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:

Air Speed:

Lucas Oil Synthetic 5W-40 A3/B4 Engine Oil

solvent, vapours, degreasing etc., evaporating from tank (in still air) 100 f/r aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) 0.5-1 r direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion) 1-2.5 r	m/s (100- min.) m/s (200- min) 0 m/s (500-				
spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) 200 f/r direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion) 1-2.5 r grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion). 2.5-10 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	min.) m/s (200- min)) m/s (500-				
generation into zone of rapid air motion) 500 f/r grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion). 2.5-10 Within each range the appropriate value depends on: 2.000 f Lower end of the range Upper end of the range 1: Room air currents minimal or favourable to capture 1: Disturbing room air currents	min)) m/s (500-				
of very high rapid air motion). 2000 f Within each range the appropriate value depends on: 2000 f Lower end of the range Upper end of the range 1: Room air currents minimal or favourable to capture 1: Disturbing room air currents					
Lower end of the rangeUpper end of the range1: Room air currents minimal or favourable to capture1: Disturbing room air currents					
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 gen decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for exam 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. mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical ai 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					
 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 docur describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid p should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, b irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye reconstriction - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Intelligence Bulletin 59]. 	a review of personnel begin eye dness or				
Skin protection See Hand protection below					
 Hands/feet protection Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, 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 man manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calcu 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 of 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 washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and duration of contact, - chemical resistance of glove material, - glove thickness and - dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). - When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time g 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 use. - Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: - Excellent when breakthrough time > 480 min - Fair when breakthrough time > 480 min - Fair when breakthrough time > 20 min - Fair when breakthrough time >	ulated in observed a should be greater than a according to long-term				
permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection is be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manu technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these only likely to give short duration protection and would normally be just for single use applications, then disposed of. Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a r	ufacturers e gloves are e is abrasion				

Other protection Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit. Eye wash unit.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class1 P2	-
up to 50	1000	-	A-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	A-2 P2
up to 100	10000	-	A-3 P2
100+			Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

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	Pale Clear and Bright Oil		
Physical state	Liquid	Relative density (Water = 1)	0.846
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)	-51	Viscosity (cSt)	87.0 @ 40°C
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	>200	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

Page 7 of 12

Lucas Oil Synthetic 5W-40 A3/B4 Engine Oil

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

		tances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise
carbonates, calcium salts, overbased	Not Available	Not Available
Phenol, dodecyl-, sulfurized,	ΤΟΧΙΟΙΤΥ	IRRITATION
	Oral (Rat) LD50: 4468 mg/kg ^[1]	
dimethylbutyl & isopropyl)dithiophosphate	Inhalation (Rat) LC50: >2.3 mg/l4h ^[1]	Skin: adverse effect observed (irritating) ^[1]
zinc 0,0-bis(1,3-	dermal (rat) LD50: >2002 mg/kg ^[1]	Eye: adverse effect observed (irritating) $^{\left[1 \right]}$
	ΤΟΧΙΟΙΤΥ	IRRITATION
A3/B4 Engine Oil	Not Available	Not Available
Lucas Oil Synthetic 5W-40	ΤΟΧΙΟΙΤΥ	IRRITATION
Chronic	animal models); nevertheless exposure by all routes sh	
Eye	discomfort characterised by tearing or conjunctival redn	
		assified by EC Directives), direct contact with the eye may produce transient
Skin Contact	following entry through wounds, lesions or abrasions.	ts (as classified under EC Directives); the material may still produce health damage n cause inflammation of the skin on contact in some persons.
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
Inhaled		ffects or irritation of the respiratory tract (as classified by EC Directives using anima that exposure be kept to a minimum and that suitable control measures be used in a

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 zinc O,O-bis(1,3included diarrhoea, skin and gastrointestinal irritation, lethargy, reduced food intake, staining about the nose and eye; occasionally, there dimethylbutyl & was drooping of the eyelid, hair standing up, inco-ordination and salivation. Toxicity is reduced following inhalation (due to vapour pressure isopropyl)dithiophosphate 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. No significant acute toxicological data identified in literature search. 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: 🗙 – D

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

No evidence of endocrine disrupting properties were found in the current literature.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Lucas Oil Synthetic 5W-40 A3/B4 Engine Oil	Not Available	Not Available	Not Available	Not Available	Not Available
zinc O,O-bis(1,3- dimethylbutyl &	Endpoint	Test Duration (hr)	Species	Value	Source
isopropyl)dithiophosphate	NOEC(ECx)	48h	Crustacea	<0.1mg/l	1
	EC50	96h	Algae or other aquatic plants	1-5mg/l	1

	EC50	48h	Crustacea	0.11mg/l	1
	LC50	96h	Fish	46mg/l	2
Phenol, dodecyl-, sulfurized,	Endpoint	Test Duration (hr)	Species	Value	Source
carbonates, calcium salts, overbased	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Ecotox databa		CHA Registered Substances - Ecotoxicologica Aquatic Hazard Assessment Data 6. NITE (.		

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

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
	No Data available for all ingredients

12.4. Mobility in soil

Ingredient	Mobility	
	No Data available for all ingredients	

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

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

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.
	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

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Labels Required
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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	
14.3. Transport hazard	Class Not Ap	pplicable
class(es)	Subsidiary Hazard Not Ap	pplicable
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
	Hazard identification (Kemler)	r) Not Applicable
14.6. Special precautions for user	Classification code	Not Applicable
	Hazard Label	Not Applicable
	Special provisions	Not Applicable
	Limited quantity	Not Applicable
	Tunnel Restriction Code	Not Applicable

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

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

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	IMDG ClassNot ApplicableIMDG Subsidiary HazardNot Applicable	
14.4. Packing group	Not Applicable	
14.5 Environmental hazard	Not Applicable	
14.6. Special precautions for user	EMS Number Not App Special provisions Not App Limited Quantities Not App	licable

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

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	Not Applicable Not Applicable	
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	Classification code Not Applicable	

Continued...

Lucas Oil Synthetic 5W-40 A3/B4 Engine Oil

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
zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate	Not Available
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate	Not Available
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	Not Available

SECTION 15 Regulatory information

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

zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased is found on the following regulatory lists Not Applicable

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	Yes
Canada - DSL	Yes
Canada - NDSL	No (zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate)
Vietnam - NCI	Yes
Russia - FBEPH	No (zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate)
Legend:	Yes = All CAS declared ingredients are on the inventory

National Inventory	Status
	$N_0 = Ope or more of the CAS listed incredients are not on the inventory. These incredients may be exempt or will require registration$

SECTION 16 Other information

Revision Date	23/04/2024
Initial Date	23/04/2024

Full text Risk and Hazard codes

H315	Causes skin irritation.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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
- I OD. Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: 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
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Hazardous to the Aquatic Environment Long-Term Hazard Category 3, H412	Calculation method

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