

HyperDrive KXR 5W-30 C3 VAG

Certas Lubricant Solutions

Part Number: **EEH40**

Version No: 1.5
Safety data sheet according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Issue Date: **24/01/2025** Print Date: **24/01/2025** S.REACH.GB.EN

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

1.1. Product Identifier

Product name	ict name HyperDrive KXR 5W-30 C3 VAG	
Synonyms	Not Available	
Other means of identification	Not Available	

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

Chemical Product Category	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	Certas Lubricant Solutions	
Address	st Floor, Allday House, Warrington Road, Birchwood, Warrington Cheshire Great Britain	
Telephone	00 685 685	
Fax	Not Available	
Website	Not Available	
Email	HSE.Sharedservice@certasenergy.co.uk	

1.4. Emergency telephone number

- • •	• • •	
Association / Organisation	Certas Lubricants Solutions	
Emergency telephone number(s)	0800 685 685 Mon – Fri 09:00 – 16:00 UK Time.	
Other emergency telephone number(s)	Not Available	

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classified according to GB- CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 [1]	Non hazardous
Legend:	1. Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

2.2. Label elements

zizi zasor olomono		
Hazard pictogram(s)	Not Applicable	
Signal word	Not Applicable	

Hazard statement(s)

Not Applicable

Supplementary statement(s)

EUH208	EUH208 Contains (C14-16-18)alkylphenol. May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	

Precautionary statement(s) Prevention

Not Applicable

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Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

Material contains lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346), 1-decene homopolymer, hydrogenated, lubricating oils, petroleum C15-30 hydrotreated neutral (DMSO <3% w/w by IP 346)*, paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346).

2.3. Other hazards

May produce skin discomfort*.

Possible skin sensitizer*.

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	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M- Factor	Nanoform Particle Characteristics
1. 72623-87-1 2.276-738-4 3.649-483-00-5 4.Not Available	10-30	lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346)	Aspiration Hazard Category 1; H304 [1]	SCL: Not Available Acute M factor: Not Applicable Chronic M factor: Not Applicable	Not Available
1. 68037-01-4 2.500-183-1 3.Not Available 4.Not Available	10-30	1-decene homopolymer, hydrogenated	Aspiration Hazard Category 1; H304 ^[1]	SCL: Not Available Acute M factor: Not Applicable Chronic M factor: Not Applicable	Not Available
1. 72623-86-0. 2.Not Available 3.Not Available 4.Not Available	10-30	lubricating oils, petroleum C15-30 hydrotreated neutral (DMSO <3% w/w by IP 346)*	Aspiration Hazard Category 1; H304 ^[1]	SCL: Not Available Acute M factor: Not Applicable Chronic M factor: Not Applicable	Not Available
1. 64742-56-9. 2.Not Available 3.Not Available 4.Not Available	<10	paraffinic distillate, light, solvent- dewaxed (severe) (DMSO <3% w/w by IP 346)	Aspiration Hazard Category 1; H304 ^[1]	SCL: Not Available Acute M factor: Not Applicable Chronic M factor: Not Applicable	Not Available
1. 84605-29-8 2.283-392-8 3.Not Available 4.Not Available	<10	zinc Q.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	SCL: Not Available Acute M factor: Not Applicable Chronic M factor: Not	Not Available

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1. CAS No 2.EC No 3.Index No 4.REACH No	% [weight]	Name	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M- Factor	Nanoform Particle Characteristics
				Applicable	
1. 1190625-94-5 2.Not Available 3.Not Available 4.Not Available	<1	(C14-16-18)alkylphenol	Sensitisation (Skin) Category 1B, Specific Target Organ Toxicity - Repeated Exposure Category 2; H317, H373 ^[1]	SCL: Not Available Acute M factor: Not Applicable Chronic M factor: Not Applicable	Not Available
1. 64742-54-7. 2.Not Available 3.Not Available 4.Not Available	10-30	paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Non hazardous ^[1]	SCL: Not Available Acute M factor: Not Applicable Chronic M factor: Not Applicable	Not Available

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 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. 		

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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 handl	ing
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

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

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8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment	
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/m³ (Systemic, Chronic) Inhalation 5.58 mg/m³ (Local, Chronic) Oral 0.74 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.19 mg/m³ (Local, Chronic) *	9.33 mg/kg food (Oral)	
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 0.00211 mg/m³ (Systemic, Chronic) * Oral 0.24 mg/kg bw/day (Systemic, Chronic) *	0.004 mg/L (Water (Fresh)) 0.045 mg/L (Water - Intermittent release) 0.0046 mg/L (Water (Marine)) 0.022 mg/kg sediment dw (Sediment (Fresh Water)) 0.002 mg/kg sediment dw (Sediment (Marine)) 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

Ingredient	Original IDLH	Revised IDLH
paraffinic distillate, heavy, hydrotreated (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
1-decene homopolymer, hydrogenated	Not Available	Not Available
lubricating oils, petroleum C15- 30 hydrotreated neutral (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
zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate	Not Available	Not Available
(C14-16-18)alkylphenol	Not Available	Not Available

8.2. Exposure controls

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:
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 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 m/s (100- 200 f/min.)
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 m/s (200- 500 f/min)
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 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	

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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

8.2.2. Individual protection measures, such as personal protective equipment







multiplied by factors of 10 or more when extraction systems are installed or used.



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

- Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber

NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

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 thoroughly. 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 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 greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
 When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 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.

 Contaminated gloves should be replaced.

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
- · Good when breakthrough time > 20 min
- · Fair when breakthrough time < 20 min
- · Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also 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 manufacturers 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 gloves are 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 is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Body protection

Hands/feet 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	Clear & Bright Oil		
Physical state	Liquid	Relative density (Water = 1)	0.850
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available

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pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	-45	Viscosity (cSt)	66.5
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	>240	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
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	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 toxicological effects

g				
a) Acute Toxicity	Based on available data, the classification criteria are not met.			
b) Skin Irritation/Corrosion	Based on available data, the classification criteria are not met.			
c) Serious Eye Damage/Irritation	Based on available data, the classification criteria are not met.			
d) Respiratory or Skin sensitisation	Based on available data, the classification criteria are not met.			
e) Mutagenicity	Based on available data, the classification criteria are not met.			
f) Carcinogenicity	Based on available data, the classification criteria are not met.			
g) Reproductivity	Based on available data, the classification criteria are not met.			
h) STOT - Single Exposure	Based on available data, the classification criteria are not met.			
i) STOT - Repeated Exposure	Based on available data, the classification criteria are not met.			
j) Aspiration Hazard	Based on available data, the classification criteria are not met.			
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.			
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.			
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.			
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).			
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.			
HyperDrive KXR 5W-30 C3	TOXICITY	IRRITATION		
VAG	Not Available	Not Available		
	-			

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	TOXICITY			IRRITATION	
paraffinic distillate, heavy, nydrotreated (severe) (DMSO	Dermal (rabbit) LD50: >5000 mg/kg ^[2]			Not Available	
<3% w/w by IP 346)	Oral (Rat) LD50: >15000 mg/kg ^[2]				
lubricating oils, petroleum	TOXICITY	IRRITA		643	
C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346)	Oral (Rat) LD50: >5000 mg/kg ^[2]		adverse effect observed (not irri		
		SKIN: N	o adverse effect observed (not irr	itating). 1	
	TOXICITY	IRRITATION			
	Inhalation (Rat) LC50: >2500 mg/m3/4h ^[2] Eye: no adverse effect observ		ed (not irritating) ^[1]		
1-decene homopolymer, hydrogenated	Inhalation (Rat) LC50: 4.68 mg/l/1h ^[2]	8 mg/l/1h ^[2] Skin: no adverse effect obser		ed (not irritating) ^[1]	
,	Oral (Rat) LD50: >5000 mg/kg ^[2]				
	Oral (Rat) LD50: 36000 mg/kg ***[2]				
lubricating oils, petroleum	TOXICITY			IRRITATION	
C15-30 hydrotreated neutral	ro.			Not Available	
(DMSO <3% w/w by IP 346)*	Oral (Rat) LD50: >5000 mg/kg ^[2]			Not Available	
	TOXICITY			IRRITATION	
paraffinic distillate, light,	Dermal (rabbit) LD50: >2000 mg/kg ^[1]			Not Available	
solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Inhalation (Rat) LC50: 2.18 mg/l4h ^[2]				
	Oral (Rat) LD50: >5000 mg/kg ^[2]				
	TOXICITY		IRRITATION		
zinc 0,0-bis(1,3-	dermal (rat) LD50: >2002 mg/kg ^[1]		Eye: adverse effect observed (i	rritation([1]	
dimethylbutyl &					
isopropyl)dithiophosphate	Inhalation (Rat) LC50: >2.3 mg/l4h ^[1] Oral (Rat) LD50: 4468 mg/kg ^[1]		Skin. adverse ellect observed (irritating). 1	
			•		
	TOXICITY		IRRITATION		
(C14-16-18)alkylphenol	dermal (rat) LD50: >2000 mg/kg ^[1]			Not Available	
	Oral (Rat) LD50: >2000 mg/kg ^[1]				
Legend:	Value obtained from Europe ECHA Registered specified data extracted from RTECS - Register of the specified data.			m manufacturer's SDS. Unless otherw	
	For unrefined and mildly refined distillate base oil Acute toxicity: Animal testing showed high semile swallowing or skin contact, respectively. The sam	thal doses of >5 e material was a	also reported to be moderately irri	tating to skin, while not being sensitizin	
lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346)	Repeat dose toxicity: Animal testing showed that Reproductive / developmental toxicity: No studies doses may reduce the body weight of both the mindered toxicity: These oils have been found to can Cancer-causing potential: The general conclusion however, they have not been found to be associal	on developmer other and the foc ause mutations. In that can be dra	ntal toxicity or reproduction are avectus, and increase the rate of soft	ailable. Animal testing shows that high tissue malformations. see oils may potentially cause skin cand	
1-decene homopolymer, hydrogenated	(estimated) * Evidence of conjunctival changes ** program October 2002 For poly-alpha-olefins (PAOs): PAOs are highly branched, isoparaffinic chemical polyalphaolefin mixture is then distilled into appro In existing data, there appears to be no data to sliterature that alkanes with 30 or more carbon ato make it unlikely that significant absorption into the biologically active. PAOs also have low volatility, s	No evidence of s produced by o priate product fr now that these s ms are unlikely b body will occur so that exposure	tissue damage [Inland Vacuum li digomerisation of 1-octene, 1-dec actions to meet specific viscosity tructural analogs cause health eff to be absorbed when given by mo There are also no functional groes is unlikely to occur by inhalation	ene and/or 1-dodecene. The crude specifications and hydrogenated. fects. In addition, there is evidence in the buth. The physical and chemical proper ups on PAO molecules that are	
,,,,,,	also makes it hard to generate a high concentrating Acute toxicity: Animal testing shows that PAOs has Repeat dose toxicity: Animal testing shows that Painflammation, after exposure at high doses. Reproductive toxicity: Animal testing suggested the Genetic toxicity: Testing has not shown any evide Cancer-causing potentials: Animal testing has not properties to mineral oils, they do not contain poly	ave relatively low rAOs show low rat application once that PAOs of the shown any pro	vacute toxicity. epeat dose toxicity – some increa f PAO to skin did not impair repro cause mutations or chromosomal pensity to cause tumours. While a	ductive performance. aberrations. alpha-olefin polymers have similar	
zinc O,O-bis(1,3- dimethylbutyl &	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.				

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The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact HyperDrive KXR 5W-30 C3 urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation VAG & (C14-16potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance 18)alkylphenol which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons 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 paraffinic distillate, heavy, • 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. • The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing.

hydrotreated (severe) (DMSO <3% w/w by IP 346) & lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346) & lubricating oils, petroleum C15-30 hydrotreated neutral (DMSO <3% w/w by IP 346)* & paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)

• 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 molecules and have shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and mildly refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have demonstrated very low mammalian toxicity. Testing of residual oils for mutation-causing and cancer-causing potential has shown negative

results, supporting the belief that these materials lack biologically active components or the components are largely non-bioavailable due to their molecular size.

Toxicity testing has consistently shown that lubricating base oils have low acute toxicities. Numerous tests have shown that a lubricating base oil s mutagenic and carcinogenic potential correlates with its 3-7 ring polycyclic aromatic compound (PAC) content, and the level of DMSO extractables (e.g. IP346 assay), both characteristics that are directly related to the degree/conditions of processing.

paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346) & lubricating oils, petroleum C15-30 hydrotreated neutral (DMSO <3% w/w by IP 346)* & paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)

For highly and severely refined distillate base oils:

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 semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-irritating" to "moderately irritating" when tested for skin and eye irritation. Testing for sensitisation has been negative. The effects of repeated exposure vary by species; in animals, effects to the testes and lung have been observed, as well as the formation of granulomas. In animals, these substances have not been found to cause reproductive toxicity or significant increases in birth defects. They are also not considered to cause cancer, mutations or chromosome aberrations.

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

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) & zinc O,O-bis(1,3dimethylbutyl &

isopropyl)dithiophosphate & (C14-16-18)alkylphenol

No significant acute toxicological data identified in literature search.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

C – 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

HyperDrive KXR 5W-30 C3	Endpoint	Т	est Duration (hr)	Species		Value		Source	
VAG	Not Available	Not Available Not Availa		Not Av	/ailable	Not Available	•	Not Available	
paraffinic distillate, heavy,	Endpoint	Test Duration (hr)		Species			Value		Source
	EC50	96h		Algae or other aquatic plants			>1000m	g/l	1
hydrotreated (severe) (DMSO	NOEC(ECx)	504h		Crustacea		>1mg/l		1	
<3% w/w by IP 346)	EC50	48h		Crustacea		>1000m	g/l	1	
	ErC50	72h		Algae or other aquatic plants			>1000m	g/l	1
lubricating oils, petroleum C20-50, hydrotreated neutral	Endpoint	Test Duration (hr)		ion (hr) Species		Value	Value		ource
(DMSO <3% w/w by IP 346)	•		504h	•					Juice
	NOEC(ECx)		50411		Crustacea	>1mg	/1	1	

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	EC50		48h		Crustacea		>1000mg	/I	1		
1-decene homopolymer,	Endpoint	Endpoint Test Durat		Spec	ies	Value)	So	urce		
hydrogenated	Not Available		Not Available	Not A	vailable	Not A	vailable	No	Not Available		
lubricating oils, petroleum	Endpoint		Test Duration (hr)		Species	Species Value			So	urce	
C15-30 hydrotreated neutral	NOEC(ECx)		504h		Crustacea		>1mg/l		1		
(DMSO <3% w/w by IP 346)*	EC50		48h		Crustacea		>1000mg	/I	1		
novettinia distillate lisht	Endpoint		Test Duration (hr)		Species Value		Value			urce	
paraffinic distillate, light, solvent-dewaxed (severe)	NOEC(ECx)		504h		Crustacea >		>1mg/l	>1mg/l		1	
(DMSO <3% w/w by IP 346)	EC50	48h		Crustacea >1000m		>1000mg	ıg/l 1				
	Endpoint	Tes	st Duration (hr)	Species				Value		Source	
zinc 0,0-bis(1,3-	EC50	96h		Algae or other aquatic plants				1-5mg/l		1	
dimethylbutyl &	EC50	48h		Crustacea			0.11mg/l		1		
isopropyl)dithiophosphate	NOEC(ECx)	481	'n	Crustacea			<0.1mg/l		1		
	LC50	961	n	Fish	Fish			46mg/l		2	
	Endpoint		Test Duration (hr)		Species		Value		Sou	ırce	
(C14-16-18)alkylphenol	EC50(ECx)		24h		Crustacea		>100mg/l		2		
	EC50		48h		Crustacea		>100mg/	/I	2		
Legend:	Ecotox database -	Aquatic 1	oxicity Data 2. Europe EC Toxicity Data 5. ECETOC Data 8. Vendor Data								

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
1-decene homopolymer, hydrogenated	LOW	LOW

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
lubricating oils, petroleum C20- 50, hydrotreated neutral (DMSO <3% w/w by IP 346)	LOW (LogKOW = 7.87)
1-decene homopolymer, hydrogenated	HIGH (LogKOW = 5.116)
lubricating oils, petroleum C15- 30 hydrotreated neutral (DMSO <3% w/w by IP 346)*	HIGH (LogKOW = 6.43)
zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate	LOW (LogKOW = 9.52)

12.4. Mobility in soil

Ingredient	Mobility
1-decene homopolymer, hydrogenated	LOW (Log KOC = 1724)

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

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

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13.1. Waste treatment methods

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

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

Product / Packaging disposal

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
HAZCHEM	Not Applicable

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

14.1. UN number or ID number	Not Applicable	lot Applicable					
14.2. UN proper shipping name	Not Applicable	lot Applicable					
14.3. Transport hazard class(es)	Class Not Applicable Subsidiary Hazard Not Applicable						
14.4. Packing group	Not Applicable						
14.5. Environmental hazard	Not Applicable	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 Co	ode	Not Applicable				

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

14.1. UN number	Not Applicable	Not Applicable					
14.2. UN proper shipping name	Not Applicable	Not Applicable					
	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				
	Cargo Only Maximum Qty / Pack		Not Applicable				
14.6. Special precautions for user	Passenger and Cargo Packing In	structions	Not Applicable				
uoc.	Passenger and Cargo Maximum	Qty / Pack	Not Applicable				
	Passenger and Cargo Limited Qu	uantity Packing Instructions	Not Applicable				
	Passenger and Cargo Limited Ma	aximum Qty / Pack	Not Applicable				

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

14.1. UN number	ot Applicable					
14.2. UN proper shipping	Not Applicable					
name	TVO Applicable					
14.3. Transport hazard	IMDG Class Not Applicable					
class(es)	IMDG Subsidiary Hazard Not Applicable					
14.4. Packing group	Not Applicable					
14.5 Environmental hazard	Not Applicable					
	EMS Number Not Applicable					
14.6. Special precautions for user	Special provisions Not Applicable					
	Limited Quantities Not Applicable					

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

14.1.	UN number	Not Applicable	ot Applicable						
	UN proper shipping name	Not Applicable	lot Applicable						
	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							
		Classification code	Not Applicable						
14.6.	Special precautions for	Special provisions	Not Applicable Not Applicable						
	user	Limited quantity	Not Applicable						
		Equipment required	Not Applicable						
		Fire cones number	Not 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
lubricating oils, petroleum C20- 50, hydrotreated neutral (DMSO <3% w/w by IP 346)	Not Available
1-decene homopolymer, hydrogenated	Not Available
lubricating oils, petroleum C15- 30 hydrotreated neutral (DMSO <3% w/w by IP 346)*	Not Available
paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Not Available
zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate	Not Available
(C14-16-18)alkylphenol	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
lubricating oils, petroleum C20- 50, hydrotreated neutral (DMSO <3% w/w by IP 346)	Not Available
1-decene homopolymer, hydrogenated	Not Available
lubricating oils, petroleum C15- 30 hydrotreated neutral (DMSO <3% w/w by IP 346)*	Not Available
paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)	Not Available
zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate	Not Available
(C14-16-18)alkylphenol	Not Available

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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

Great Britain GB mandatory classification and labelling list (GB MCL)

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

Great Britain GB mandatory classification and labelling list (GB MCL)

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

1-decene homopolymer, hydrogenated is found on the following regulatory lists

Not Applicable

lubricating oils, petroleum C15-30 hydrotreated neutral (DMSO <3% w/w=" by=" ip=" 346)*=">is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

Great Britain GB mandatory classification and labelling list (GB MCL)

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

Great Britain GB mandatory classification and labelling list (GB MCL)

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

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

(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)

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); lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346); 1-decene homopolymer, hydrogenated; lubricating oils, petroleum C15-30 hydrotreated neutral (DMSO <3% w/w by IP 346); paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346); zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate; (C14-16-18)alkylphenol)	
China - IECSC	No ((C14-16-18)alkylphenol)	
Europe - EINEC / ELINCS / NLP	No ((C14-16-18)alkylphenol)	
Japan - ENCS	No ((C14-16-18)alkylphenol)	
Korea - KECI	No ((C14-16-18)alkylphenol)	
New Zealand - NZIoC	No ((C14-16-18)alkylphenol)	
Philippines - PICCS	No ((C14-16-18)alkylphenol)	
USA - TSCA	TSCA Inventory 'Active' substance(s) (paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346); lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346); 1-decene homopolymer, hydrogenated; lubricating oils, petroleum C1 30 hydrotreated neutral (DMSO <3% w/w by IP 346)*; paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346); zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate); No ((C14-16-18)alkylphenol)	
Taiwan - TCSI	No ((C14-16-18)alkylphenol)	
Mexico - INSQ	No (lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346); paraffinic distillate, light, solvent-dewaxed (sever (DMSO <3% w/w by IP 346); zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate; (C14-16-18)alkylphenol)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (lubricating oils, petroleum C20-50, hydrotreated neutral (DMSO <3% w/w by IP 346); lubricating oils, petroleum C15-30 hydrotreated neutral (DMSO <3% w/w by IP 346)*; paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346); zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate; (C14-16-18)alkylphenol)	
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

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Initial Date	25/01/2025	
Full text Risk and Hazard codes		
Tun toxt triol and mazara dodd		
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.	

SDS Version Summary

Version	Date of Update	Sections Updated
0.5	24/01/2025	Physical and chemical properties - Appearance, Hazards identification - Classification, Composition / information on ingredients - Ingredients

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
 MARPOL: International Convention for the Prevention of Pollution from Ships
- IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- ▶ IBC: International Bulk Chemical Code
- 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
, EUH208	Expert judgement
, EUH210	Calculation method

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