

PAROIL E

Atlas Copco Power Technique , Power Tools Distribution n.v.

Chemwatch: 5274-52

Version No: 8.1

Safety Data Sheet

Issue Date: 09/05/2024

Print Date: 28/03/2025

L.GHS.THA.EN.E

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

Product Identifier

Product name	PAROIL E
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	0017174277, 0017630061, 1604530601, 1604530702, 1604530801, 1604530901, 1615595400, 1615595500, 1630009600, UFI:HDE1-UTHE-PM1E-AUK4 UFI: HDE1-UTHE-PM1E-AUK4

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

Relevant identified uses	Engine oil.
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Details of the manufacturer or supplier of the safety data sheet

Registered company name	Atlas Copco Power Technique , Power Tools Distribution n.v.
Address	Industrielaan 40 Hoeselt 3730 Belgium
Telephone	+32 3 870 2111
Fax	Not Available
Website	www.atlascopco.com
Email	info.lubricants.pts@atlascopco.com

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone number(s)	+66 2 508 8762
Other emergency telephone number(s)	+61 3 9573 3188

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification	Non hazardous
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Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available	1-5	polyolefin amide
68649-42-3	1-2.4	<u>zinc dialkyl dithiophosphate</u>
252315-85-8	1-3	<u>calcium long chain alkaryl sulfonate</u>
722503-69-7	0.1-0.9	<u>methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium</u>
722503-68-6	0.1-0.9	<u>methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium</u>
Not Available	0.1-90	<u>interchangeable low viscosity base oil (<20.5 cSt @ 40C)</u>
Not Available		(DMSO <3% w/w - IP346)
Not Available		* contains one or more of the following CAS-numbers (REACH registration numbers):
Not Available		64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25),
Not Available		64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48),
Not Available		64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48),
Not Available		72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13),
Not Available		8042-47-5 (01-2119487078-27), 848301-69-9 (01-0000020163-82)

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	<p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none">▶ Wash out immediately with fresh running water.▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	<p>If skin contact occurs:</p> <ul style="list-style-type: none">▶ 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	<ul style="list-style-type: none">▶ If fumes or combustion products are inhaled remove from contaminated area.▶ Lay patient down. Keep warm and rested.▶ Prosthesis such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.▶ Transport to hospital, or doctor.
Ingestion	<ul style="list-style-type: none">▶ If swallowed do NOT induce vomiting.▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.▶ Observe the patient carefully.▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.▶ Seek medical advice.

Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.
- ▶ Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
 - ▶ In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.

‣ High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

NOTE: Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

SECTION 5 Firefighting measures

Extinguishing media

- Foam.
- Dry chemical powder.
- Carbon dioxide.
- Water spray or fog - Large fires only.

Special hazards arising from the substrate or mixture

Fire Incompatibility	‣ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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Advice for firefighters

Fire Fighting	<ul style="list-style-type: none">‣ 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.
Fire/Explosion Hazard	<ul style="list-style-type: none">‣ 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 toxic fumes of carbon monoxide (CO). Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns. Foaming may cause overflow of containers and may result in possible fire.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	Slippery when spilt. <ul style="list-style-type: none">‣ 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.
Major Spills	Slippery when spilt. Moderate hazard. <ul style="list-style-type: none">‣ Clear area of personnel and move upwind.‣ Alert Fire Brigade and tell them location and nature of hazard.‣ Wear breathing apparatus plus protective gloves.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	<ul style="list-style-type: none">‣ 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.
Other information	<ul style="list-style-type: none">‣ Store in original containers.‣ Keep containers securely sealed.‣ No smoking, naked lights or ignition sources.‣ Store in a cool, dry, well-ventilated area.

Conditions for safe storage, including any incompatibilities

Suitable container	<ul style="list-style-type: none"> ▶ Metal can or drum ▶ Packaging as recommended by manufacturer. ▶ Check all containers are clearly labelled and free from leaks.
Storage incompatibility	<ul style="list-style-type: none"> · CARE: Water in contact with heated material may cause foaming or a steam explosion with possible severe burns from wide scattering of hot material. Resultant overflow of containers may result in fire. · Oil leaks in a pressurized circuit may result in a fine flammable spray (the lower flammability limit for oil mist is reached for a concentration of about 45 g/m³) · Autoignition temperatures may be significantly lower under particular conditions (slow oxidation on finely divided materials..) ▶ Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA


Not Available

Ingredient	Original IDLH	Revised IDLH
zinc dialkyl dithiophosphate	Not Available	Not Available
calcium long chain alkaryl sulfonate	Not Available	Not Available
methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium	Not Available	Not Available
methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium	Not Available	Not Available
interchangeable low viscosity base oil (<20.5 cSt @40C)	2,500 mg/m ³	Not Available

MATERIAL DATA

NOTE L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. European Union (EU) List of harmonised classification and labelling hazardous substances, Table 3.1, Annex VI, Regulation (EC) No 1272/2008 (CLP) - up to the latest ATP

Exposure controls

Appropriate engineering controls	<p>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.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>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.</p>
Individual protection measures, such as personal protective equipment	
Eye and face protection	<ul style="list-style-type: none"> ▶ 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.
Skin protection	See Hand protection below
Hands/feet protection	<p>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.</p> <p>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.</p> <p>Personal hygiene is a key element of effective hand care.</p> <ul style="list-style-type: none"> ▶ Wear chemical protective gloves, e.g. PVC. ▶ Wear safety footwear or safety gumboots, e.g. Rubber
Body protection	See Other protection below
Other protection	<ul style="list-style-type: none"> ▶ Overalls. ▶ P.V.C apron. ▶ Barrier cream. ▶ Skin cleansing cream.

Respiratory protection

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

- ▶ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- ▶ The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- ▶ Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties**Information on basic physical and chemical properties**

Appearance	Amber liquid, slight hydrocarbon odour		
Physical state	Liquid	Relative density (Water = 1)	0.888
Odour	Not Available	Partition coefficient n-octanol / water	>6
Odour threshold	Not Available	Auto-ignition temperature (°C)	>320
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	-36	Viscosity (cSt)	109 @ 40C
Initial boiling point and boiling range (°C)	>280	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	230 (ASTM D92)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	10.0	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.0	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	<0.05 @ 20C	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	>1	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

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	<ul style="list-style-type: none"> ▶ Unstable in the presence of incompatible materials. ▶ Product is considered stable. ▶ Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information**Information on toxicological effects**

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.

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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	Inhalation hazard is increased at higher temperatures. Not normally a hazard due to non-volatile nature of product Inhalation of oil droplets/ aerosols may cause discomfort and may produce chemical pneumonitis.
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. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health).
Skin Contact	The liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives . Open cuts, abraded or irritated skin should not be exposed to this material The material may accentuate any pre-existing dermatitis condition
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	Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. Principal route of exposure is by skin contact; lesser exposures include inhalation of fumes from hot oils, oil mists or droplets. Prolonged contact with mineral oils carries with it the risk of skin conditions such as oil folliculitis, eczematous dermatitis, pigmentation of the face (melanosis) and warts on the sole of the foot (plantar warts). With highly refined mineral oils no appreciable systemic effects appear to result through skin absorption. Exposure to oil mists frequently elicits respiratory conditions, such as asthma; the provoking agent is probably an additive. NOTE L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. European Union (EU) List of harmonised classification and labelling hazardous substances, Table 3.1, Annex VI, Regulation (EC) No 1272/2008 (CLP) - up to the latest ATP

PAROIL E	TOXICITY	IRRITATION
	Dermal (Rabbit) LD50: >5000 mg/kg ^[2]	Not Available
	Oral (Rat) LD50: >5000 mg/kg ^[2]	
zinc dialkyl dithiophosphate	Toxicity	Irritation
	dermal (rat) LD50: >2002 mg/kg ^[1]	Eye:Moderate ^[1]
	Oral (Rat) LD50: =500-5000 mg/kg ^[2]	Skin:Moderate ^[1]
calcium long chain alkaryl sulfonate	TOXICITY	IRRITATION
	Not Available	Not Available
methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium	TOXICITY	IRRITATION
	Not Available	Not Available
methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium	TOXICITY	IRRITATION
	Not Available	Not Available
interchangeable low viscosity base oil (<20.5 cSt @40C)	TOXICITY	IRRITATION
	Not Available	Not Available

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS.
Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

ZINC DIALKYL DITHIOPHOSPHATE	Reproductive effector in rats. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
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	<p>For dithiophosphate alkyl esters and their (zinc) salts:</p> <p>Acute toxicity: Dithiophosphate alkyl esters consist of a phosphorodithioic acid structure with alkyl ester substituent groups. The alkyl groups are saturated hydrocarbon chains that vary in length and extent of branching. While corrosive to tissue the esters demonstrate a low concern for acute systemic toxicity. Data on acute mammalian toxicity of zinc dialkyldithiophosphates in highly refined lubricant base oil also indicate a low concern for acute toxicity.</p>
CALCIUM LONG CHAIN ALKARYL SULFONATE	<p>Animal studies show that calcium sulfonates with a TBN greater than 300 are not skin sensitisers while the results in animals at a TBN (Total Base Number) of 300 exhibit a mixed skin sensitisation response. However, human repeat insult patch tests clearly show that high TBN overbased calcium sulfonates (TBN = 300) are not sensitisers and that low TBN calcium sulfonates do not cause sensitisation in a substantial number of persons at concentrations of 10% or lower within the definition of sensitisation under EU Regulation (EC) No. 1272/2008.</p> <p>The weight-of-evidence indicates that low TBN sodium and calcium sulfonates (TBN < 300) are skin sensitisers with a specific concentration limit (SCL) of 10% and that high TBN sodium and calcium sulfonates (TBN = 300) are not skin sensitisers. Studies in guinea pigs show that low TBN benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs., para-, sodium salts (EC No. None; CAS No. None; TBN = 3) is a skin sensitizer while benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs., para-, sodium salts TBN = 448) is not a skin sensitiser. Studies in guinea pigs and human volunteers show that low TBN benzenesulfonic acid, 4-(mono-C15 -36 branched alkyl derivs., C24 rich) and benzenesulfonic acid, 4-octadecyl, calcium salts (EC 939-141-9; TBN = 13) are skin sensitisers.</p>
PAROIL E & INTERCHANGEABLE LOW VISCOSITY BASE OIL (<20.5 CST @40C)	<p>NOTE L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346.</p> <p>European Union (EU) List of harmonised classification and labelling hazardous substances, Table 3.1, Annex VI, Regulation (EC) No 1272/2008 (CLP) - up to the latest ATP</p>
CALCIUM LONG CHAIN ALKARYL SULFONATE & METHYL-C20-26-ALKYLBENZENESULFONIC ACID, BRANCHED, CALCIUM & METHYL-C20-24-ALKYLBENZENESULFONIC ACID, BRANCHED, CALCIUM	<p>The following information refers to contact allergens as a group and may not be specific to this product.</p> <p>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 urticaria, involve antibody-mediated immune reactions.</p> <p>for alkaryl sulfonate petroleum additives:</p> <p>Mammalian Toxicology - Acute. Existing data on acute mammalian toxicity indicates a low concern for acute toxicity.</p> <p>Acute oral toxicity: In all but one studies, there were no deaths that could be attributed to treatment with the test material when administered at the limit dose of 2000 or 5000 mg/kg. In some studies, the primary clinical observations were diarrhea and reduced food consumption (without a change in body weight). These effects are consistent with the gastrointestinal irritant properties of detergents in an oil-based vehicle.</p>
METHYL-C20-26-ALKYLBENZENESULFONIC ACID, BRANCHED, CALCIUM & METHYL-C20-24-ALKYLBENZENESULFONIC ACID, BRANCHED, CALCIUM	<p>No significant acute toxicological data identified in literature search.</p> <p>Linear alkylbenzene sulfonates (LAS) are classified as Irritant (Xi) with the risk phrases R38 (Irritating to skin) and R41 (Risk of serious damage to eyes) according to CESIO (CESIO 2000). LAS are not included in Annex 1 of list of dangerous substances of Council Directive 67/548/EEC.</p> <p>Linear alkylbenzene sulfonic acids (LABS) are strong acids (pKa<2) are classified as corrosive (R34)</p> <p>Branched materials exhibit comparable toxicity to linear species.</p> <p>Acute toxicity: The available data indicate minimal to moderate toxicity, with LD50 values ranging from 500 to 2000 mg/kg body weight (bw). Acute inhalation data also indicate a lack of significant toxicity. Available dermal exposure data also shows a lack of significant toxicity.</p>

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: ✗ – Data either not available or does not fill the criteria for classification
✓ – Data available to make classification

SECTION 12 Ecological information

Toxicity

PAROIL E	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
zinc dialkyl dithiophosphate	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	11.5mg/l	1
	EC50	96h	Algae or other aquatic plants	1-5mg/l	1
	NOEC(ECx)	48h	Crustacea	<1mg/l	1
calcium long chain alkaryl sulfonate	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
methyl-C20-26-alkylbenzenesulfonic acid,	Endpoint	Test Duration (hr)	Species	Value	Source

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branched, calcium	Not Available	Not Available	Not Available	Not Available	Not Available
methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
interchangeable low viscosity base oil (<20.5 cSt @40C)	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation
zinc dialkyl dithiophosphate	LOW (BCF = 100)

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal	<p>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.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none">▸ Reduction▸ Reuse▸ Recycling▸ Disposal (if all else fails) <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.</p> <ul style="list-style-type: none">▸ 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 Authority for disposal.▸ Bury or incinerate residue at an approved site.▸ Recycle containers if possible, or dispose of in an authorised landfill.
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SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
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Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

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

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 dialkyl dithiophosphate	Not Available
calcium long chain alkaryl sulfonate	Not Available
methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium	Not Available
methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium	Not Available
interchangeable low viscosity base oil (<20.5 cSt @40C)	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
zinc dialkyl dithiophosphate	Not Available
calcium long chain alkaryl sulfonate	Not Available
methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium	Not Available
methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium	Not Available
interchangeable low viscosity base oil (<20.5 cSt @40C)	Not Available

SECTION 15 Regulatory information

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

zinc dialkyl dithiophosphate is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)
Thailand Existing Chemicals Inventory (TECI)

calcium long chain alkaryl sulfonate is found on the following regulatory lists

Not Applicable

methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium is found on the following regulatory lists

Not Applicable

methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium is found on the following regulatory lists

Not Applicable

interchangeable low viscosity base oil (<20.5 cSt @40C) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List
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
Thailand - List of Hazardous Substances B.E. 2565 (Thai)

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	No (calcium long chain alkaryl sulfonate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium)

National Inventory	Status
Canada - NDSL	No (calcium long chain alkaryl sulfonate; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium)
China - IECSC	No (calcium long chain alkaryl sulfonate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium)
Europe - EINEC / ELINCS / NLP	No (calcium long chain alkaryl sulfonate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium)
Japan - ENCS	No (calcium long chain alkaryl sulfonate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium)
Korea - KECI	No (methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium)
New Zealand - NZIoC	No (methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium)
Philippines - PICCS	No (calcium long chain alkaryl sulfonate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium)
USA - TSCA	TSCA Inventory 'Active' substance(s) (zinc dialkyl dithiophosphate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium); No (calcium long chain alkaryl sulfonate)
Taiwan - TCSI	Yes
Mexico - INSQ	No (calcium long chain alkaryl sulfonate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium)
Vietnam - NCI	Yes
Russia - FBEPH	No (calcium long chain alkaryl sulfonate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium)
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	09/05/2024
Initial Date	30/11/2017

SDS Version Summary

Version	Date of Update	Sections Updated
7.1	23/12/2022	Classification review due to GHS Revision change.
8.1	09/05/2024	Hazards identification - Classification

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.

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

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- 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

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