# JLM Hydraulic Valve Lifter Treatment 250ml GCG Turbochargers Australia Pty Ltd

Chemwatch: **7923-93** Version No: **2.1** 

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: **19/12/2024** Print Date: **20/12/2024** S.GHS.AUS.EN.E

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

| dentifier |
|-----------|
|           |
|           |
|           |

| Product name                  | JLM Hydraulic Valve Lifter Treatment 250ml |  |
|-------------------------------|--|--|
| Chemical Name                 | Not Applicable                             |  |
| Synonyms                      | J06070                                     |  |
| Chemical formula              | Not Applicable                             |  |
| Other means of identification | Not Available                              |  |

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

Relevant identified uses

Lubricants, Greases and Release Products.
Use according to manufacturer's directions.

#### Details of the manufacturer or supplier of the safety data sheet

| Registered company name | GCG Turbochargers Australia Pty Ltd               |
|-------------------------|---|
| Address                 | 117 Eldridge Road Condell Park NSW 2200 Australia |
| Telephone               | +61291333855                                      |
| Fax                     | Not Available                                     |
| Website                 | www.jlmlubricants.com.au                          |
| Email                   | sales@jlmlubricants.com.au                        |

#### Emergency telephone number

| Association / Organisation        | GCG Turbochargers Australia Pty Ltd | CHEMWATCH EMERGENCY RESPONSE (24/7) |
|-----------------------------------|-------------------------------------|-------------------------------------|
| Emergency telephon number(s       |                                     | +61 1800 951 288                    |
| Other emergency telephon number(s | Not Available                       | +61 3 9573 3188                     |

Once connected and if the message is not in your preferred language then please dial 01

#### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

| Poisons Schedule   | Not Applicable  |
|--------------------|---|
| Classification [1] | Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Reproductive Toxicity Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 3 |
| Legend:            | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI   |

#### Label elements

Hazard pictogram(s)





Signal word

Warning

#### Hazard statement(s)

| H319  | Causes serious eye irritation.                     |  |
|-------|--|--|
| H336  | May cause drowsiness or dizziness.                 |  |
| H361f | Suspected of damaging fertility.                   |  |
| H401  | Toxic to aquatic life.                             |  |
| H412  | Harmful to aquatic life with long lasting effects. |  |

#### Precautionary statement(s) Prevention

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| P201 | Obtain special instructions before use.  |
|------|--|
| P271 | Use only outdoors or in a well-ventilated area.                                  |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. |
| P261 | Avoid breathing mist/vapours/spray.  |
| P273 | Avoid release to the environment.  |
| P264 | Wash all exposed external body areas thoroughly after handling.                  |

### Precautionary statement(s) Response

| P308+P313      | IF exposed or concerned: Get medical advice/ attention.  |
|----------------|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312           | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.  |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |

#### Precautionary statement(s) Storage

| P405      | Store locked up.   |
|-----------|--|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

#### Precautionary statement(s) Disposal

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

### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### Mixtures

| CAS No      | %[weight] | Name  |
|-------------|-----------|---|
| 64742-54-7. | 50-75     | paraffinic distillate, heavy, hydrotreated (severe)   |
| 64742-65-0. | 2.5-5     | paraffinic distillate, heavy, solvent-dewaxed (severe)  |
| 68784-26-9  | 1-5       | dodecylphenol, calcium overbased, sulfurised, carbonated  |
| 64741-88-4. | 1-5       | paraffinic distillate, heavy, solvent-refined (severe)  |
| 84605-29-8  | 0.5-2.5   | zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate  |
| 85940-28-9  | 0.5-2.5   | zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate  |
| 64742-55-8. | <1        | paraffinic distillate, light, hydrotreated (severe)   |
| Legend:     | ,         | Crit; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. |

# **SECTION 4 First aid measures**

| Description of first aid measure | es  |
|----------------------------------|---|
| Eye Contact                      | If this product comes in contact with the eyes:  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                     | 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                       | <ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor.</li> </ul>   |
| Ingestion                        | <ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul> |

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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#### **SECTION 5 Firefighting measures**

#### **Extinguishing media**

Foam.

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- Dry chemical powder.
- BCF (where regulations permit).
- 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

#### Advice for firefighters

#### 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 Fighting 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.

#### Combustible

- Slight fire hazard when exposed to heat or flame.
- On combustion, may emit toxic fumes of carbon monoxide (CO).

Heating may cause expansion or decomposition leading to violent rupture of containers.

- May emit acrid smoke.
- Mists containing combustible materials may be explosive. Combustion products include:

#### Fire/Explosion Hazard

carbon dioxide (CO2) phosphorus oxides (POx) sulfur oxides (SOx) metal oxides

other pyrolysis products typical of burning organic material.

May emit poisonous fumes May emit corrosive fumes.

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.

HAZCHEM

Not Applicable

#### **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.  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 | Slippery when spilt.  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. |

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

#### **SECTION 7 Handling and storage**

#### Precautions for safe handling

#### Safe handling

Hydrogen sulfide (H2S or Sour Gas) may be present when loading and unloading transport vessels. Stay upwind and away from newly opened hatches and allow to vent thoroughly before handling material. Steam may be used to vent hatches. Keep all sources of ignition away from loading area

The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.

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- Containers, even those that have been emptied, may contain explosive vapours.
- ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- Electrostatic discharge may be generated during pumping this may result in fire.
- · Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- · Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec).
- Avoid splash filling.
- Do NOT use compressed air for filling discharging or handling operations.
- · Wait 2 minutes after tank filling (for tanks such as those on
- road tanker vehicles) before opening hatches or manholes.
- Wait 30 minutes after tank filling (for large storage tanks)
- before opening hatches or manholes. Even with proper
- grounding and bonding, this material can still accumulate an
- electrostatic charge. If sufficient charge is allowed to
- accumulate, electrostatic discharge and ignition of flammable
- · air-vapour mixtures can occur. Be aware of handling
- operations that may give rise to additional hazards that result
- · from the accumulation of static charges. These include but are
- not limited to pumping (especially turbulent flow), mixing, filtering, splash filling, cleaning and filling of tanks and
- containers, sampling, switch loading, gauging, vacuum truck
- operations, and mechanical movements. These activities may
- lead to static discharge e.g. spark formation. Restrict line velocity during pumping in order to avoid generation of
- electrostatic discharge (= 1 m/s until fill pipe submerged to
- twice its diameter, then = 7 m/s). Avoid splash filling.
- Do NOT use compressed air for filling, discharging, or handling operations
- 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.

# 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.

### 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
- Avoid reaction with oxidising agents

#### SECTION 8 Exposure controls / personal protection

# **Control parameters**

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

| Source                       | Ingredient   | Material name             | TWA        | STEL             | Peak             | Notes            |
|------------------------------|--|---------------------------|------------|------------------|------------------|------------------|
| Australia Exposure Standards | paraffinic distillate, heavy, hydrotreated (severe)    | Oil mist, refined mineral | 5<br>mg/m3 | Not<br>Available | Not<br>Available | Not<br>Available |
| Australia Exposure Standards | paraffinic distillate, heavy, solvent-dewaxed (severe) | Oil mist, refined mineral | 5<br>mg/m3 | Not<br>Available | Not<br>Available | Not<br>Available |
| Australia Exposure Standards | paraffinic distillate, heavy, solvent-refined (severe) | Oil mist, refined mineral | 5<br>mg/m3 | Not<br>Available | Not<br>Available | Not<br>Available |
| Australia Exposure Standards | paraffinic distillate, light, hydrotreated (severe)    | Oil mist, refined         | 5<br>mg/m3 | Not<br>Available | Not<br>Available | Not<br>Available |

| Ingredient   | Original IDLH | Revised IDLH  |
|--|---------------|---------------|
| paraffinic distillate, heavy,<br>hydrotreated (severe)         | 2,500 mg/m3   | Not Available |
| paraffinic distillate, heavy, solvent-dewaxed (severe)         | 2,500 mg/m3   | Not Available |
| dodecylphenol, calcium<br>overbased, sulfurised,<br>carbonated | Not Available | Not Available |
| paraffinic distillate, heavy, solvent-refined (severe)         | 2,500 mg/m3   | Not Available |
| zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate     | Not Available | Not Available |

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| Ingredient   | Original IDLH | Revised IDLH  |
|--|---------------|---------------|
| zinc O,O-bis(2-ethylhexyl, iso-<br>Bu, iso-Pr) dithiophosphate | Not Available | Not Available |
| paraffinic distillate, light,<br>hydrotreated (severe)         | 2,500 mg/m3   | Not Available |

#### Occupational Exposure Banding

| Ingredient   | Occupational Exposure Band Rating  | Occupational Exposure Band Limit |
|--|--|----------------------------------|
| dodecylphenol, calcium<br>overbased, sulfurised,<br>carbonated | E  | ≤ 0.1 ppm                        |
| zinc O,O-bis(2-ethylhexyl, iso-<br>Bu, iso-Pr) dithiophosphate | E  | ≤ 0.01 mg/m³                     |
| Notes:   | Occupational exposure banding is a process of assigning chemicals int adverse health outcomes associated with exposure. The output of this |                                  |

#### Exposure 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.

to a range of exposure concentrations that are expected to protect worker health.

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.

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator, Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. 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.

#### Appropriate engineering controls

| Type of Contaminant:  | Air Speed:                       |
|---|----------------------------------|
| solvent, vapours, degreasing etc., evaporating from tank (in still air).  | 0.25-0.5 m/s (50-<br>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-<br>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-<br>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-<br>2000 f/min.) |

Within each range the appropriate value depends on:

| Lower end of the range                                     | Upper end of the range           |
|--|----------------------------------|
| 1: Room air currents minimal or favourable to capture      | 1: Disturbing room air currents  |
| 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity |
| 3: Intermittent, low production.                           | 3: High production, heavy use    |
| 4. Large hood or large air mass in motion                  | 4: Small hood-local control only |

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

#### Individual protection measures, such as personal protective equipment





Safety glasses with side shields





Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]

# Eye and face protection

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 eve redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

#### Skin protection

#### See Hand protection below

#### Hands/feet protection

- Wear chemical protective gloves, e.g. PVC.

• Wear 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 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

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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
- · 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**

See Other protection below

#### Other protection

- Overalls. P.V.C apron
- Barrier cream.
- Skin cleansing cream.
- 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)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator  |
|------------------------------------|----------------------|----------------------|-------------------------|
| up to 10 x ES                      | A-AUS P2             | -                    | A-PAPR-AUS / Class 1 P2 |
| up to 50 x ES                      | -                    | A-AUS / Class 1 P2   | -                       |
| up to 100 x ES                     | -                    | A-2 P2               | A-PAPR-2 P2 ^           |

#### ^ - Full-face

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)

- 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                                   | Brown liquid with characteristic odor; does not mix wit | th water.                               |               |
|--|---|---|---------------|
| Physical state                               | Liquid  | Relative density (Water = 1)            | 897.7 @ 15 C  |
| 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)          | Not Available   | Viscosity (cSt)                         | 82.68         |
| Initial boiling point and boiling range (°C) | Not Available   | Molecular weight (g/mol)                | Not Available |
| Flash point (°C)                             | >201  | Taste                                   | Not Available |
| Evaporation rate                             | Not Applicable  | 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 |

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| 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<br>Time Equivalent (s/m3) | Not Available | Enclosed Space Ignition<br>Deflagration Density (g/m3) | Not Available |

### **SECTION 10 Stability and reactivity**

| Reactivity                         | See section 7  |
|------------------------------------|--|
| Chemical stability                 | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| 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 |   |      |    |      |     |   |    |    |    |     |      |      |    |
|--------------------------------------|---|------|----|------|-----|---|----|----|----|-----|------|------|----|
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| inionination on toxicological ci | 1000  |
|----------------------------------|---|
| Inhaled                          | Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.  Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.  There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.  Inhalation hazard is increased at higher temperatures.  Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.  Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs. |
| Ingestion                        | Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)  Accidental ingestion of the material may be damaging to the health of the individual.   |
| Skin Contact                     | Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.  There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.  The liquid may be able to be mixed 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.  The material may accentuate any pre-existing dermatitis condition  |
| Eye                              | 51r36t  |
| Chronic                          | Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility.  Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.  There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.  Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts on the soles of the feet.  Repeated application of mildly hydrotreated oils (principally paraffinic), to mouse skin, induced skin tumours; no tumours were induced with severely hydrotreated oils.  |

|   | Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material. |               |  |
|---|---|---------------|--|
|   |   |               |  |
| JLM Hydraulic Valve Lifter                                | TOXICITY  | IRRITATION    |  |
| Treatment 250ml   | Not Available   | Not Available |  |
|   | тохісіту  | IRRITATION    |  |
| paraffinic distillate, heavy,                             | Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>  | Not Available |  |
| hydrotreated (severe)                                     | Inhalation (Rat) LC50: 2.18 mg/l4h <sup>[2]</sup>   |               |  |
|   | Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>   |               |  |
|   | тохісіту  | IRRITATION    |  |
| paraffinic distillate, heavy,                             | Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>  | Not Available |  |
| solvent-dewaxed (severe)                                  | Inhalation (Rat) LC50: 2.18 mg/l4h <sup>[2]</sup>   |               |  |
|   | Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>   |               |  |
|   | TOXICITY  | IRRITATION    |  |
| dodecylphenol, calcium                                    | Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup>  | Not Available |  |
| overbased, sulfurised,<br>carbonated                      | Inhalation (Rat) LC50: >0.418 mg/L4h <sup>[2]</sup>   |               |  |
|   | Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>   |               |  |
| paraffinic distillate, heavy,<br>solvent-refined (severe) | TOXICITY  | IRRITATION    |  |
| Solvent-Tenned (Severe)                                   | Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>  | Not Available |  |
|   |   |               |  |

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|  | Inhalation (Rat) LC50: 2.18 mg/l4h <sup>[2]</sup> |   |
|--|---|---|
|  | Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>       |   |
|  | TOXICITY  | IRRITATION  |
| zinc O,O-bis(1,3-                                      | dermal (rat) LD50: >2002 mg/kg <sup>[1]</sup>     | Eye: adverse effect observed (irritating) <sup>[1]</sup>  |
| dimethylbutyl & opropyl)dithiophosphate                | Inhalation (Rat) LC50: >2.3 mg/l4h <sup>[1]</sup> | Skin: adverse effect observed (irritating) <sup>[1]</sup> |
|  | Oral (Rat) LD50: 4468 mg/kg <sup>[1]</sup>        |   |
|  | TOXICITY  | IRRITATION  |
| inc O,O-bis(2-ethylhexyl,                              | Dermal (rabbit) LD50: >20000 mg/kg <sup>[1]</sup> | Eye: adverse effect observed (irritating) <sup>[1]</sup>  |
| iso-Bu, iso-Pr)<br>dithiophosphate                     | Inhalation (Rat) LC50: >0.5 mg/l4h <sup>[1]</sup> | Skin: adverse effect observed (irritating) <sup>[1]</sup> |
|  | Oral (Rat) LD50: >2000 mg/kg <sup>[2]</sup>       |   |
| paraffinic distillate, light,<br>hydrotreated (severe) | TOXICITY  | IRRITATION  |
|  | Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>  | Not Available   |
|  | Inhalation (Rat) LC50: 2.18 mg/l4h <sup>[2]</sup> |   |
|  | Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>       |   |

Legend.

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

#### PARAFFINIC DISTILLATE, **HEAVY, SOLVENT-DEWAXED** (SEVERE)

Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins.

The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet. Some hydrocarbons may appear unchanged as in the lipoprotein particles in the gut lymph, but most hydrocarbons partly separate from fats and undergo metabolism in the gut cell. The gut cell may play a major role in determining the proportion of hydrocarbon that becomes available to be deposited unchanged in peripheral tissues such as in the body fat stores or the liver.

#### DODECYLPHENOL, CALCIUM OVERBASED, SULFURISED. CARBONATED

Skin: The key parameter chosen for skin irritation was less than the criteria set out in Directive 67/548/EEC and also Regulation (EC) 1272/2008, therefore classification for skin irritation was not considered to be necessary. Eye: The key parameter chosen for eye irritation was less than the criteria set out in Directive 67/548/EEC and also Regulation (EC) 1272/2008, therefore classification for eye irritation was not considered to be necessary. Sensitisation: The key parameter chosen for skin sensitisation was greater than the criteria set out in Directive 67/548/EEC and also Regulation (EC) 1272/2008, therefore classification for skin sensitisation was not considered to be necessary. Repeat dose toxicity: Dermal: Classification according to Directive 67/548/EEC and Regulation (EC) 1272 /2008 could not be determined as the highest dose tested was less than the cut off criteria and was a greater than result. However, it should be noted that there was no signs of toxicity seen at the highest dose tested (250 mg/kg) and it would be unlikely that classification would be necessary as the molecular weight is expected to be >500, and also the high log Kow (9.4) would suggest that entry via the dermal route is unlikely as maximum absorption is generally between log Kow 1 and 2 and therefore the substance is too lipophilic to be readily absorb. Genetic toxicity. The results for the key parameters chosen for genetic toxicity were negative and so the criteria set out in Directive 67/548/EEC and also Regulation (EC) no 1272/2008 do not apply, therefore classification for genetic toxicity was not considered to be necessary. Toxicity to Reproduction. Using the available data the substance is determined to be Reproductive category 2 according to Directive 67/548/EEC and is labelled as Repro. Cat. 2; R60: May impair fertility. In Regulation (EC) no 1272/2008, the test substance is considered to be classified as Repro Category 1B; H360: May damage fertility or the unborn child . Remarks: Classification represents substance as manufactured containing the impurity phenol, dodecyl-, branched. This impurity contributes to the hazards of the substance resulting in classification for reproductive effects. \* REACh Dossier

For alkaryl sulfonate petroleum additives:

Acute toxicity: Existing data indicates relatively low acute toxicity. Animal testing suggested diarrhea and reduced food intake, which is consistent with the detergents in an oil-based vehicle having an irritating effect on the gastrointestinal tract.

Subchronic toxicity: Existing data suggests minimal toxicity after chronic exposure by mouth. Repeated skin contact and inhalation in animals caused injury to the skin and the lungs, respectively.

Reproductive and Developmental Toxicity: Existing data did not show this group of substances to cause reproductive or developmental toxicity. There was low concern for mutation-causing potential.

for alkyl phenol sulfides and alkyl phenate sulfides (typically C15-C18 alpha alkenes, reaction products with sulfurised dodecyl phenol, and their calcium salts):

In general, highly refined lubricant base oils used in the manufacture of alkyl phenol sulfides and alkyl phenate sulfides may cause slight skin irritation, but otherwise have a low order of acute and chronic toxicity.

The substances in this category contain the unreacted alkyl phenol and its calcium salts in varying amounts as an unintended residual resulting from the processes involved in manufacture. These materials have varying levels of residual tetrapropenyl phenol (TPP) present - this substance has demonstrated the potential for toxicity to human health in its own right. It can be stated with some confidence that it is likely to play at least some role in several endpoints.TPP causes adverse systemic effects in repeated-dose toxicity studies in mammals. It also causes adverse effects on reproduction parameters and reproductive organs and adverse effects on the developing

Acute toxicity: Findings from the single and repeated exposure mammalian toxicity studies indicating minimal general toxicity. All category members have a low vapour pressure indicating that inhalation of vapours is not a likely route of exposure for humans. The high lipophilicity, high molecular weight, low aqueous solubility, and the lack of adverse findings following oral and dermal dosing indicate that intestinal absorption or absorption through the skin and distribution in the body is likely to be limited. Metabolism to (non-toxic) metabolites is predicted to occur mostly in the liver. Excretion is expected to be mainly via the urine and faeces.

In general, members of the category are not acutely toxic. In the key acute oral toxicity study (OECD TG 401) for each category member, the LD50 ranged from >5000 to >16000 mg/kg. No deaths occurred in these studies, and signs of toxicity included dirty ruffled fur, soft faeces, dark-stained urogenital areas, and red-stained feces at dose levels >5000 mg/kg. The LD50 in the key acute dermal toxicity studies (OECD TG 402) available for most category members ranged from 2000 to 5000 mg/kg, No deaths occurred in these studies, and signs of toxicity included a decrease in food consumption and clear ocular discharge at dose levels >4000 mg/kg. In two acute inhalation studies (similar to OECD 403) in rodents, using two category members, no signs of toxicity occurred at concentrations of up to

In the key eye irritation studies (OECD TG 405) for each category member, animal data indicate that these substances cause slight reversible conjunctival irritation: corneal opacity was observed in only one animal in one study and cleared by 24 hours Slight reversible irritation to the skin was observed in the key skin irritation studies (OECD TG 404) for each member of the category following a 4-hour application to the skin. In general, skin irritation scores were slightly higher in studies where the test substance was applied to the skin for 24 hours in older studies. In two repeated-dose dermal toxicity studies in rats and rabbits application of the test substances over a 28-day period resulted in skin irritation at the application site. However, in 2 human repeated-insult patch tests in which the same test substances were applied three times per week for three weeks, no evidence of skin irritation was observed.

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Several skin sensitisation studies (OECD TG 406) in quinea pigs have been conducted for each member of the category. Findings in animal studies present a contradictory profile, with positive and negative results in some instances obtained with the same substance following identical protocols. However, negative findings were obtained in two human repeated-insult patch tests. Overall, these substances are not considered to be sensitisers in humans

Repeated-dose toxicity studies show some evidence of systemic toxicity at the limit dose of 1000 mg/kg bw/day and at 200 mg/kg bw/day in a 2-generation study. The members of this category are not mutagenic in vitro. They are of low concern for developmental toxicity. Alkyl phenate sulfides cause a reduction in fertility in males and female rats, a reduction in mean live litter size, and a reduction in the size of male and female reproductive organs. This may be dependent on the concentration of residual unreacted TPP and CaTPP.

ZINC O,O-BIS(2-ETHYLHEXYL, ISO-BU, ISO-PR) DITHIOPHOSPHATE

PARAFFINIC DISTILLATE.

HEAVY, HYDROTREATED

(SEVERE) & PARAFFINIC

DEWAXED (SEVERE) &

PARAFFINIC DISTILLATE.

(SEVERE) & PARAFFINIC

DISTILLATE, LIGHT,

HEAVY, SOLVENT-REFINED

HYDROTREATED (SEVERE)

DISTILLATE, HÉAVY, SOLVENT-

\* Lanxess

PARAFFINIC DISTILLATE, LIGHT. HYDROTREATED (SEVERE)

\* Q8 MSDS

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,

- The adverse effects of these materials are associated with undesirable components, and
- The levels of the undesirable components are inversely related to the degree of processing:
- Distillate base oils receiving the same degree or extent of processing will have similar toxicities;
- The potential toxicity of residual base oils is independent of the degree of processing the oil receives.
- 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 cancercausing 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 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.

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. HEAVY, SOLVENT-DEWAXED (SEVERE) & PARAFFINIC DISTILLATE, HÉAVY, SOLVENT-REFINED (SEVERE) & ZINC O,O-BIS(1,3-DIMETHYLBUTYL & ISOPROPYL)DITHIOPHOSPHATE & PARÁFFINIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE)

No significant acute toxicological data identified in literature search.

ZINC O,O-BIS(1,3-DIMETHYLBUTYL & ISOPROPYL)DITHIOPHOSPHATE & ZINC O,O-BIS(2-ETHYLHEXYL, ISO-BU, ISO-PR) DITHIOPHOSPHATE

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may

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.

| Acute Toxicity                    | ×        | Carcinogenicity          | ×        |
|-----------------------------------|----------|--------------------------|----------|
| Skin Irritation/Corrosion         | ×        | Reproductivity           | ✓        |
| Serious Eye<br>Damage/Irritation  | <b>~</b> | STOT - Single Exposure   | <b>~</b> |
| Respiratory or Skin sensitisation | ×        | STOT - Repeated Exposure | ×        |
| Mutagenicity                      | ×        | Aspiration Hazard        | ×        |

Leaend:

- Data either not available or does not fill the criteria for classification

- Data available to make classification

#### **SECTION 12 Ecological information**

#### Toxicity

|  | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
|--|------------------|--------------------|-------------------------------|------------------|------------------|
| JLM Hydraulic Valve Lifter<br>Treatment 250ml          | Not<br>Available | Not Available      | Not Available                 | Not<br>Available | Not<br>Available |
| paraffinic distillate, heavy,<br>hydrotreated (severe) | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
|  | EC50             | 96h                | Algae or other aquatic plants | >1000mg/l        | 1                |
|  | NOEC(ECx)        | 504h               | Crustacea                     | >1mg/l           | 1                |
|  | EC50             | 48h                | Crustacea                     | >1000mg/l        | 1                |
|  | ErC50            | 72h                | Algae or other aquatic plants | >1000mg/l        | 1                |

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|   | Endpoint  | Test Duration (hr) | Species                       | Value     | Sourc          |
|---|-----------|--------------------|-------------------------------|-----------|----------------|
|   | EC50      | 96h                | Algae or other aquatic plants | >1000mg/l | 1              |
| paraffinic distillate, heavy, solvent-dewaxed (severe)    | NOEC(ECx) | 504h               | Crustacea                     | >1mg/l    | 1              |
| Solvein-dewaxed (Severe)                                  | EC50      | 48h                | Crustacea                     | >1000mg/l | 1              |
|   | ErC50     | 72h                | Algae or other aquatic plants | >1000mg/l | 1              |
|   | Endpoint  | Test Duration (hr) | Species                       | Value     | Source         |
| dodecylphenol, calcium                                    | EC50      | 96h                | Algae or other aquatic plants | 500mg/l   | Not<br>Availab |
| overbased, sulfurised,                                    | EC50(ECx) | 48h                | Crustacea                     | 4.9mg/l   | 1              |
| carbonated  | LC50      | 96h                | Fish                          | 000mg/l   | Not<br>Availab |
|   | EC50      | 48h                | Crustacea                     | 4.9mg/l   | 1              |
|   | Endpoint  | Test Duration (hr) | Species                       | Value     | Source         |
|   | EC50      | 96h                | Algae or other aquatic plants | >1000mg/l | 1              |
| paraffinic distillate, heavy,<br>solvent-refined (severe) | NOEC(ECx) | 504h               | Crustacea                     | >1mg/l    | 1              |
| solvent-renned (severe)                                   | EC50      | 48h                | Crustacea                     | >1000mg/l | 1              |
|   | ErC50     | 72h                | Algae or other aquatic plants | >1000mg/l | 1              |
| zinc O,O-bis(1,3-   | Endpoint  | Test Duration (hr) | Species                       | Value     | Source         |
|   | EC50      | 96h                | Algae or other aquatic plants | 1-5mg/l   | 1              |
| dimethylbutyl &   | EC50      | 48h                | Crustacea                     | 0.11mg/l  | 1              |
| sopropyl)dithiophosphate                                  | NOEC(ECx) | 48h                | Crustacea                     | <0.1mg/l  | 1              |
|   | LC50      | 96h                | Fish                          | 46mg/l    | 2              |
|   | Endpoint  | Test Duration (hr) | Species                       | Value     | Source         |
|   | EC50      | 72h                | Algae or other aquatic plants | 2mg/l     | 2              |
| zinc O,O-bis(2-ethylhexyl,                                | EC50      | 96h                | Algae or other aquatic plants | 2mg/l     | 2              |
| iso-Bu, iso-Pr)   | EC50      | 48h                | Crustacea                     | 5.4mg/l   | 2              |
| dithiophosphate   | NOEC(ECx) | 504h               | Crustacea                     | 0.4mg/l   | 2              |
|   | LC50      | 96h                | Fish                          | 5mg/l     | Not<br>Availab |
|   | Endpoint  | Test Duration (hr) | Species                       | Value     | Source         |
| paraffinic distillate, light,                             | NOEC(ECx) | 504h               | Crustacea                     | >1mg/l    | 1              |
| hydrotreated (severe)                                     |           |                    | Crustacea                     | >1000mg/l | 1              |

Toxic to aquatic organisms.

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 O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate     | LOW (LogKOW = 9.52) |
| zinc O,O-bis(2-ethylhexyl, iso-<br>Bu, iso-Pr) dithiophosphate | LOW (LogKOW = 9.67) |

# Mobility in soil

| Ingredient | Mobility                              |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

#### **SECTION 13 Disposal considerations**

#### 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
- RecyclingDisposal (if all else fails)

(Japan) - Bioconcentration Data 8. Vendor Data

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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 Authority for disposal.
- Bury or incinerate residue at an approved site.
- · Recycle containers if possible, or dispose of in an authorised landfill.

#### **SECTION 14 Transport information**

### **Labels Required**

| Marine Pollutant | NO             |
|------------------|----------------|
| HAZCHEM          | Not Applicable |

Land transport (ADG): 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

#### 14.7.1. 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,<br>hydrotreated (severe)         | Not Available |
| paraffinic distillate, heavy, solvent-dewaxed (severe)         | Not Available |
| dodecylphenol, calcium overbased, sulfurised, carbonated       | Not Available |
| paraffinic distillate, heavy, solvent-refined (severe)         | Not Available |
| zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate     | Not Available |
| zinc O,O-bis(2-ethylhexyl, iso-<br>Bu, iso-Pr) dithiophosphate | Not Available |
| paraffinic distillate, light,<br>hydrotreated (severe)         | Not Available |

#### 14.7.3. Transport in bulk in accordance with the IGC Code

| Product name   | Ship Type     |
|--|---------------|
| paraffinic distillate, heavy,<br>hydrotreated (severe)         | Not Available |
| paraffinic distillate, heavy, solvent-dewaxed (severe)         | Not Available |
| dodecylphenol, calcium<br>overbased, sulfurised,<br>carbonated | Not Available |
| paraffinic distillate, heavy, solvent-refined (severe)         | Not Available |
| zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate     | Not Available |
| zinc O,O-bis(2-ethylhexyl, iso-<br>Bu, iso-Pr) dithiophosphate | Not Available |
| paraffinic distillate, light,<br>hydrotreated (severe)         | Not Available |

#### **SECTION 15 Regulatory information**

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

#### paraffinic distillate, heavy, hydrotreated (severe) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

# paraffinic distillate, heavy, solvent-dewaxed (severe) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

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Chemical Footprint Project - Chemicals of High Concern List

#### dodecylphenol, calcium overbased, sulfurised, carbonated is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

#### paraffinic distillate, heavy, solvent-refined (severe) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

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

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australian Inventory of Industrial Chemicals (AIIC)

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

#### zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate is found on the following regulatory lists

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australian Inventory of Industrial Chemicals (AIIC)

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

#### paraffinic distillate, light, hydrotreated (severe) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

#### **Additional Regulatory Information**

Not Applicable

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#### **National Inventory Status**

| National Inventory                                  | Status  |
|---|---|
| Australia - AIIC / Australia Non-<br>Industrial Use | Yes   |
| Canada - DSL  | Yes   |
| Canada - NDSL                                       | No (paraffinic distillate, heavy, hydrotreated (severe); paraffinic distillate, heavy, solvent-dewaxed (severe); dodecylphenol, calcium overbased, sulfurised, carbonated; paraffinic distillate, heavy, solvent-refined (severe); zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate; zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate; paraffinic distillate, light, hydrotreated (severe)) |
| China - IECSC                                       | Yes   |
| Europe - EINEC / ELINCS /<br>NLP                    | Yes   |
| Japan - ENCS  | No (dodecylphenol, calcium overbased, sulfurised, carbonated; zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate)   |
| Korea - KECI  | Yes   |
| New Zealand - NZIoC                                 | Yes   |
| Philippines - PICCS                                 | Yes   |
| USA - TSCA  | All chemical substances in this product have been designated as TSCA Inventory 'Active'   |
| Taiwan - TCSI                                       | Yes   |
| Mexico - INSQ                                       | No (dodecylphenol, calcium overbased, sulfurised, carbonated; zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate; zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate; paraffinic distillate, light, hydrotreated (severe))  |
| Vietnam - NCI                                       | Yes   |
| Russia - FBEPH                                      | No (dodecylphenol, calcium overbased, sulfurised, carbonated; zinc O,O-bis(1,3-dimethylbutyl & isopropyl)dithiophosphate; zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate)   |
| 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 | 19/12/2024 |
|---------------|------------|
| Initial Date  | 19/12/2024 |

#### 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

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- ► 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

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