



# Viper WRL Coating Grease - VCG - 1 Lubrication Engineering Pty Ltd

Chemwatch: 46-7714 Version No: 5.1

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

# Chemwatch Hazard Alert Code: 1

Issue Date: 23/12/2022 Print Date: 28/11/2024 L.GHS.AUS.EN.E

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

| Product Identifier  |   |
|---|---|
| Product name  | Viper WRL Coating Grease - VCG - 1                      |
| Chemical Name   | Not Applicable  |
| Synonyms  | Not Available   |
| Chemical formula  | Not Applicable  |
| Other means of identification   | Not Available   |
| Relevant identified uses of the substance or mixture and uses advised against  Lubricant. |   |
| Relevant identified uses  | Use according to manufacturer's directions.             |
| Details of the manufacturer or supplier of the safety data sheet                          |   |
| Registered company name   | Lubrication Engineering Pty Ltd                         |
| Address   | Unit 1D/201 Power Street Glendenning NSW 2761 Australia |
| Telephone   | +61 2 9636 5655   |
| Fax   | +61 2 9636 8556   |

# Emergency telephone number

Website

www.lubeng.com.au sales@lubeng.com.au

| Association / Organisation          | Lubrication Engineering Pty Ltd |
|-------------------------------------|---------------------------------|
| Emergency telephone number(s)       | +61 2 9636 5655                 |
| Other emergency telephone number(s) | Not Available                   |

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

# HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

| Chemwatch | Hazard | Ratings |
|-----------|--------|---------|
|-----------|--------|---------|

|              | Min | Max |                         |
|--------------|-----|-----|-------------------------|
| Flammability | 1   |     |                         |
| Toxicity     | 0   |     | 0 = Minimum             |
| Body Contact | 1   |     | 1 = Low                 |
| Reactivity   | 1   |     | 2 = Moderate            |
| Chronic      | 0   |     | 3 = High<br>4 = Extreme |

| Poisons Schedule   | Not Applicable  |
|--------------------|---|
| Classification [1] | Serious Eye Damage/Eye Irritation Category 2B   |
| 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) | Not Applicable |
|---------------------|----------------|
| Signal word         | Warning        |

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H320 Causes eye irritation. Precautionary statement(s) Prevention P264 Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.

#### 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  |
|---------------|---|---|
| 63748-98-1    | >80   | mineral oil   |
| Not Available |   | containing  |
| 64742-52-5.   | NotSpec   | naphthenic distillate, heavy, hydrotreated (severe) |
| 64742-53-6.   | NotSpec   | naphthenic distillate, light, hydrotreated (severe) |
| 1327-43-1     | <1  | magnesium aluminosilicate                           |
| Legend:       | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available |   |

#### **SECTION 4 First aid measures**

#### Description of first aid measures

| 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.  If failure/misuse of high pressure/hydraulic equipment results in injection of grease/oil through the skin seek urgent medical attention. Treat as surgical emergency.   |
| Inhalation   | <ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</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> </ul> |

# 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.
- ▶ BCF (where regulations permit).
- Carbon dioxide
- Water spray or fog Large fires only.

Do not use water jets.

#### 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> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>   |
|-----------------------|---|
| Fire/Explosion Hazard | <ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> <li>CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns.</li> <li>Foaming may cause overflow of containers and may result in possible fire.</li> </ul> |
| 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

|              | Slippery when spilt.  Clean up all spills immediately.  |
|--------------|---|
| Minor Spills | <ul> <li>Avoid contact with skin and eyes.</li> <li>Wear impervious gloves and safety goggles.</li> <li>Trowel up/scrape up.</li> </ul> |
|              | Place spilled material in clean, dry, sealed container.  Flush spill area with water.   |
|              | ·   |
|              | Slippery when spilt.  Minor hazard.  Clear area of personnel.   |
|              | Clear area or personner.      Alert Fire Brigade and tell them location and nature of hazard.   |
|              | Control personal contact with the substance, by using protective equipment as required.   |
| Major Spills | ▶ Prevent spillage from entering drains or water ways.  |
|              | ▶ Contain spill with sand, earth or vermiculite.  |
|              | <ul> <li>Collect recoverable product into labelled containers for recycling.</li> </ul>   |
|              | <ul> <li>Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.</li> </ul>          |
|              | Wash area and prevent runoff into drains or waterways.  |
|              | 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                 | <ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul> |
| Other information             | <ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>  |

# Conditions for safe storage, including any incompatibilities

| Suitable container | Packaging as recommended by manufacturer.   |
|--------------------|---|
|                    | <ul> <li>Check all containers are clearly labelled and free from leaks</li> </ul> |

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#### Storage incompatibility

- · 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**

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Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

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

| Ingredient  | Original IDLH | Revised IDLH  |
|---|---------------|---------------|
| mineral oil   | 2,500 mg/m3   | Not Available |
| naphthenic distillate, heavy, hydrotreated (severe) | 2,500 mg/m3   | Not Available |
| naphthenic distillate, light, hydrotreated (severe) | 2,500 mg/m3   | Not Available |
| magnesium aluminosilicate                           | Not Available | Not Available |

#### MATERIAL DATA

#### **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.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If risk of overexposure exists, wear approved respirator. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. Provide adequate ventilation in warehouses and enclosed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

# Appropriate engineering controls

| Type of Contaminant.  | All Opecu.                       |
|---|----------------------------------|
| 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:

Type of Contaminant:

| 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











#### Eye and face protection

- ▶ Safety glasses with side shields
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
  - Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye

Air Speed

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|                       | irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]. |
|-----------------------|--|
| Skin protection       | See Hand protection below  |
| Hands/feet protection | <ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>   |
| Body protection       | See Other protection below   |
| Other protection      | <ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>   |

#### 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  | Red paste with hydrocarbon-like odour; does not mix with water. |  |                |
|---|---|--|----------------|
| Physical state                                    | Non Slump Paste   | Relative density (Water = 1)                           | 0.95           |
| Odour   | Not Available   | Partition coefficient n-octanol / water                | Not Available  |
| Odour threshold                                   | Not Available   | Auto-ignition temperature (°C)                         | Not Available  |
| pH (as supplied)                                  | Not Applicable  | Decomposition temperature (°C)                         | Not Available  |
| Melting point / freezing point (°C)               | Not Available   | Viscosity (cSt)  | Not Available  |
| Initial boiling point and boiling range (°C)      | Not Available   | Molecular weight (g/mol)                               | Not Applicable |
| Flash point (°C)                                  | 204   | 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%)                                  | 6-8 (emulsion) |
| 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<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  |

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Hazardous decomposition products

See section 5

#### **SECTION 11 Toxicological information**

Inhaled

| Information on toxicological effects |  |  |
|--------------------------------------|--|--|
|                                      | Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number        |  |
|                                      | of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising |  |

of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.

Inhalation hazard is increased at higher temperatures.

Inhalation of oil droplets/ aerosols may cause discomfort and may produce chemical pneumonitis.

Ingestion of corroboration where pre-ex

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). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.

Skin Contact

Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.

Open cuts, abraded or irritated skin should not be exposed to this material

The material may accentuate any pre-existing dermatitis condition

Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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.

Eye

Limited evidence exists, or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals and/or is expected to produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.

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.

Chronic

Exposure to oil mists frequently elicits respiratory conditions, such as asthma; the provoking agent is probably an additive. High oil mist concentrations may produce lipoid pneumonia although clinical evidence is equivocal. In animals exposed to concentrations of 100 mg/m3 oil mist, for periods of 12 to 26 months, the activity of lung and serum alkaline phosphatase enzyme was raised; 5 mg/m3 oil mist did not produce this response. These enzyme changes are sensitive early indicators of lung damage. Workers exposed to vapours of mineral oil and kerosene for 5 to 35 years showed an increased prevalence of slight basal lung fibrosis.

Many studies have linked cancers of the skin and scrotum with mineral oil exposure. Contaminants in the form of additives and the polycyclic aromatic hydrocarbons (PAHs - as in the crude base stock) are probably responsible. PAH levels are higher in aromatic process oils/used/reclaimed motor oils. Subchronic 90-day feeding studies conducted on male and female rats on highly refined white mineral oils and waxes found that higher molecular-weight hydrocarbons (microcrystalline waxes and the higher viscosity oils) were without biological effects. Paraffin waxes and low- to mid viscosity oils produced biological effects that were inversely proportional to molecular weight, viscosity and melting point: oil-type and processing did not appear to be determinants. Biological effects were more pronounced in females than in males. Effects occurred mainly in the liver and mesenteric lymph nodes and included increased organ weights, microscopic inflammatory changes, and evidence for the presence of saturated mineral hydrocarbons in affected tissues. Inflammation of the cardiac mitral valve was also observed at high doses in rats treated with paraffin waxes.

Smith J.H., et al: Toxicologic Pathology: 24, 2, 214-230, 1996

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| TOXICITY                           | IRRITATION    |
|------------------------------------|---------------|
| Dermal (None) LD50: 6003 mg/kg*[2] | Not Available |

mineral oil

# TOXICITY IRRITATION Not Available Not Available

naphthenic distillate, heavy, hydrotreated (severe)

| TOXICITY   | IRRITATION                             |
|--|--|
| Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>   | Skin (Rodent - rabbit): 500mg - Severe |
| Inhalation (Rat) I C50: 2 18 mg/l4h <sup>[2]</sup> | Skin (Rodent - rabbit): 500mg - Severe |

Oral (Rat) LD50: >5000 mg/kg<sup>[2]</sup>

naphthenic distillate, light, hydrotreated (severe)

| TOXICITY  | IRRITATION                                   |
|---|--|
| Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>  | Eye (Rodent - rabbit): 0.1mL                 |
| Inhalation (Rat) LC50: 2.18 mg/l4h <sup>[2]</sup> | Skin (Rodent - rabbit): 0.5mL/24H - Moderate |
| Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>       | Skin (Rodent - rabbit): 500mg - Severe       |

magnesium aluminosilicate

| TOXICITY   | IRRITATION    |
|--|---------------|
| Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>   | Not Available |
| Inhalation (Rat) LC50: >2.08 mg/l4h <sup>[1]</sup> |               |
| Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>        |               |

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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

Exposure to the material may result in a possible risk of irreversible effects. The material may produce mutagenic effects in man. This concern is raised, generally, on the basis of

appropriate studies with similar materials using mammalian somatic cells in vivo. Such findings are often supported by positive results from in vitro mutagenicity studies.

No significant acute toxicological data identified in literature search.

Studies indicate that normal, branched and cyclic paraffins are absorbed from the mammalian 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 that iso- or cyclo-paraffins.

NAPHTHENIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE)

The major classes of hydrocarbons have been shown to be well absorbed by the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with dietary lipids. The dependence of hydrocarbon absorption on concomitant triglyceride digestion and absorption, is known as the "hydrocarbon continuum hypothesis", and asserts that a series of solubilising phases in the intestinal lumen, created by dietary triglycerides and their digestion products, afford hydrocarbons a route to the lipid phase of the intestinal absorptive cell (enterocyte) membrane. While some hydrocarbons may traverse the mucosal epithelium unmetabolised and appear as solutes in lipoprotein particles in intestinal lymph, there is evidence that most hydrocarbons partially separate from nutrient lipids and undergo metabolic transformation in the enterocyte. The enterocyte may play a major role in determining the proportion of an absorbed hydrocarbon that, by escaping initial biotransformation, becomes available for deposition in its unchanged form in peripheral tissues such as adipose tissue, or in the liver.

NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change

MINERAL OIL & NAPHTHENIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) & NAPHTHENIC DISTILLATE, LIGHT. HYDROTREATED (SEVERE) The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives;

- The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since:
- · The adverse effects of these materials are associated with undesirable components, and The levels of the undesirable components are inversely related to the degree of processing;
- · Distillate base oils receiving the same degree or extent of processing will have similar toxicities;
- The potential toxicity of residual base oils is independent of the degree of processing the oil receives.
   The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing.

The degree of refining influences the carcinogenic potential of the oils. Whereas mild acid / earth refining processes are inadequate to substantially reduce the carcinogenic potential of lubricant base oils, hydrotreatment and / or solvent extraction methods can yield oils with no carcinogenic potential.

Unrefined and 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 carcinogenic and mutagenic 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. Mutagenicity and carcinogenicity testing of residual oils has been negative, 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 Skin irritating is not significant (CONCAWE) based on 14 tests on 10 CASs from the OLBO class (Other Lubricant Base Oils). Each study lasted for 24 hours, a period of time 6 times longer than the duration recommended by the OECD method).

Eye irritation is not significant according to experimental data (CONCAWE studies) based on 9 "in vivo" tests on 7 CASs from the OLBO class(Other Lubricant Base Oils).

Sensitisation: The substance does not cause the sensitization of the respiratory tract or of the skin. (CONCAWE studies based on 14 tests on 11 CASs from the OLBO class(Other Lubricant Base Oils))

Germ cell mutagenicity: The tests performed within the 'in vivo" studies regarding gene mutation at mice micronuclei indicated negative results (CONCAWE studies. AMES tests had negative results in 7 studies performed on 4 CASs from the OLBO class(Other Lubricant Base Oils)).

Reproduction toxicity: Reproduction / development toxicity monitoring according to OECD 421 or 422 methods. CONCAWE tests gave negative results in oral gavage studies. Pre-birth studies regarding toxicity in the unborn foetus development process showed a maternal LOAEL (Lowest Observed Adverse Effect Level) of 125 mg/kg body/day, based on dermal irritation and a NOAEL (No Observable Adverse Effect Level) of 2000 mg/kg body/day, which shows that the substance is not toxic for reproduction.

STOT (toxicity on specific target organs) - repeated exposure: Studies with short term repeated doses (28-day test) on rabbit skin indicated the NOAEL value of 1000 mg/kg. NOAEL for inhalation, local effects > 280 mg/m3 and for systemic effects NOAEL > 980 mg/m3. Sub-chronic toxicity

90-day study Dermal: NOAEL > 2000 mg/kg (CONCAWE studies).

Repeat dose toxicity:

Oral

NOAEL for heavy paraffinic distillate aromatic extract could not be identified and is less than 125 mg/kg/day when administered orally. Inhalation

The NOAEL for lung changes associated with oil deposition in the lungs was 220 mg/m3. As no systemic toxicity was observed, the overall NOAEL for systemic effects was > 980 mg/m3.

In a 90 day subchronic dermal study, the administration of Light paraffinic distillate solvent extract had an adverse effect on survivability, body weights, organ weights (particularly the liver and thymus), and variety of haematology and serum chemistry parameters in exposed animals. Histopathological changes which were treatment-related were most prominent in the adrenals, bone marrow, kidneys, liver, lymph nodes, skin, stomach, and thymus. Based on the results of this study, the NOAEL for the test material is less than 30 mg/kg/day. Toxicity to reproduction:

Mineral oil (a white mineral oil) caused no reproductive or developmental toxicity with 1 mL/kg/day (i.e., 1000 mg/kg/day) in an OECD 421 guideline study, but did cause mild to moderate skin irritation. Therefore, the reproductive/developmental NOAEL for this study is =1000 mg/kg/day and no LOAEL was determined.

Developmental toxicity, teratogenicity:

Heavy paraffinic distillate furfural extract produced maternal, reproductive and foetal toxicity. Maternal toxicity was exhibited as vaginal discharge (dose-related), body weight decrease, reduction in thymus weight and increase in liver weight (125 mg/kg/day and higher) and aberrant haematology and serum chemistry (125 and/or 500 mg/kg/day). Evidence of potential reproductive effects was shown by an increased number of dams with resorptions and intrauterine death. Distillate aromatic extract (DAE) was developmentally toxic regardless of exposure duration as indicated by increased resorptions and decreased foetal body weights. Furthermore, when exposures were increased to 1000 mg/kg/day and given only during gestation days 10 through 12, cleft palate and ossification delays were observed. Cleft palate was considered to indicate a potential teratogenic effect of DAE.

The following Oil Industry Note (OIN) has been applied: OIN 8 - The classifications as a reproductive toxicant category 2; H361d (Suspected of damaging the unborn child) and specific target organ toxicant category 1; H372 (Causes damage to organs through prolonged or repeated exposure) need not apply if the substance is not classified as carcinogenic

Toxicokinetics of lubricant base oils has been examined in rodents. Absorption of other lubricant base oils across the small intestine is related to carbon chain length; hydrocarbons with smaller chain length are more readily absorbed than hydrocarbons with a longer chain length. The majority of an oral dose of mineral hydrocarbon is not absorbed and is excreted unchanged in the faeces. Distribution of mineral hydrocarbons following absorption has been observed in liver, fat, kidney, brain and spleen. Excretion of absorbed mineral hydrocarbons occurs via the faeces and urine. Based on the pharmacokinetic parameters and disposition profiles, the data indicate inherent strain differences in the total systemic exposure (~4 fold greater systemic dose in F344 vs SD rats), rate of metabolism, and hepatic and lymph

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node retention of C26H52, which may be associated with the different strain sensitivities to the formation of liver granulomas and MLN

Highly and Severely Refined Distillate Base Oils

Acute toxicity: Multiple studies of the acute toxicity of highly & severely refined base oils have been reported. Irrespective of the crude source or the method or extent of processing, the oral LD50s have been observed to be >5 g/kg (bw) and the dermal LD50s have ranged from >2 to >5g/kg (bw). The LC50 for inhalation toxicity ranged from 2.18 mg/l to> 4 mg/l.

When tested for skin and eye irritation, the materials have been reported as "non-irritating" to "moderately irritating" Testing in guinea pigs for sensitization has been negative

Repeat dose toxicity: . Several studies have been conducted with these oils. The weight of evidence from all available data on highly & severely refined base oils support the presumption that a distillate base oil s toxicity is inversely related to the degree of processing it receives. Adverse effects have been reported with even the most severely refined white oils - these appear to depend on animal species and/ or the peculiarities of the study.

- The granulomatous lesions induced by the oral administration of white oils are essentially foreign body responses. The lesions occur only in rats, of which the Fischer 344 strain is particularly sensitive,
- ▶ The testicular effects seen in rabbits after dermal administration of a highly to severely refined base oil were unique to a single study and may have been related to stress induced by skin irritation, and
- The accumulation of foamy macrophages in the alveolar spaces of rats exposed repeatedly via inhalation to high levels of highly to severely refined base oils is not unique to these oils, but would be seen after exposure to many water insoluble materials.

Reproductive and developmental toxicity: A highly refined base oil was used as the vehicle control in a one-generation reproduction study. The study was conducted according to the OECD Test Guideline 421. There was no effect on fertility and mating indices in either males or females. At necropsy, there were no consistent findings and organ weights and histopathology were considered normal by the study s authors.

A single generation study in which a white mineral oil (a food/ drug grade severely refined base oil) was used as a vehicle control is reported. Two separate groups of pregnant rats were administered 5 ml/kg (bw)/day of the base oil via gavage, on days 6 through 19 of gestation. In one of the two base oil dose groups, three malformed foetuses were found among three litters The study authors considered these malformations to be minor and within the normal ranges for the strain of rat.

In vitro (mutagenicity): Several studies have reported the results of testing different base oils for mutagenicity using a modified Ames assay Base oils with no or low concentrations of 3-7 ring PACs had low mutagenicity indices.

In vivo (chromosomal aberrations): A total of seven base stocks were tested in male and female Sprague-Dawley rats using a bone marrow cytogenetics assay. The test materials were administered via gavage at dose levels ranging from 500 to 5000 mg/kg (bw). Dosing occurred for either a single day or for five consecutive days. None of the base oils produced a significant increase in aberrant cells.

Carcinogenicity: Highly & severely refined base oils are not carcinogens, when given either orally or dermally.

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.

| Acute Toxicity                       | ×        | Carcinogenicity          | × |
|--------------------------------------|----------|--------------------------|---|
| Skin Irritation/Corrosion            | ×        | Reproductivity           | × |
| Serious Eye<br>Damage/Irritation     | <b>~</b> | STOT - Single Exposure   | × |
| Respiratory or Skin<br>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**

NAPHTHENIC DISTILLATE,

HEAVY, HYDROTREATED

(SEVERE) & NAPHTHENIC

HYDROTREATED (SEVERE)

DISTILLATE, LIGHT,

#### **Toxicity**

| Viper WRL Coating Grease -<br>VCG - 1                  | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
|--|------------------|--------------------|-------------------------------|------------------|------------------|
|  | Not<br>Available | Not Available      | Not Available                 | Not<br>Available | Not<br>Available |
|  | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
| mineral oil  | Not<br>Available | Not Available      | Not Available                 | Not<br>Available | Not<br>Available |
|  | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
|  | EC50             | 96h                | Algae or other aquatic plants | >1000mg/l        | 1                |
| naphthenic distillate, heavy,<br>hydrotreated (severe) | NOEC(ECx)        | 504h               | Crustacea                     | >1mg/l           | 1                |
| nyuron cutcu (severe)                                  | EC50             | 48h                | Crustacea                     | >1000mg/l        | 1                |
|  | ErC50            | 72h                | Algae or other aquatic plants | >1000mg/l        | 1                |
|  | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
|  | ErC50            | 72h                | Algae or other aquatic plants | >1000mg/l        | 1                |
| naphthenic distillate, light,<br>hydrotreated (severe) | EC50             | 96h                | Algae or other aquatic plants | >1000mg/l        | 1                |
| nyaroareatea (severe)                                  | NOEC(ECx)        | 504h               | Crustacea                     | >1mg/l           | 1                |
|  | EC50             | 48h                | Crustacea                     | >1000mg/l        | 1                |
|  | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
|  | EC50             | 72h                | Algae or other aquatic plants | 410mg/l          | 2                |
| magnesium aluminosilicate                              | NOEC(ECx)        | 96h                | Fish                          | <1.4mg/l         | 2                |
|  | EC50             | 48h                | Crustacea                     | >10000mg/l       | 2                |

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

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#### 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                       |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

# Mobility in soil

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

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

# Waste treatment methods

| Product / Packaging disposal | <ul> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |
|------------------------------|--|
|------------------------------|--|

#### **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         |
|--|---------------|
| mineral oil  | Not Available |
| naphthenic distillate, heavy, hydrotreated (severe)    | Not Available |
| naphthenic distillate, light,<br>hydrotreated (severe) | Not Available |
| magnesium aluminosilicate                              | Not Available |

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

| Product name  | Ship Type     |
|---|---------------|
| mineral oil   | Not Available |
| naphthenic distillate, heavy, hydrotreated (severe) | Not Available |
| naphthenic distillate, light, hydrotreated (severe) | Not Available |
| magnesium aluminosilicate                           | Not Available |

# **SECTION 15 Regulatory information**

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

# mineral oil 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

#### naphthenic 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)

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Chemical Footprint Project - Chemicals of High Concern List

#### naphthenic 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

#### magnesium aluminosilicate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

#### **Additional Regulatory Information**

Not Applicable

#### **National Inventory Status**

| National inventory Status                           |  |
|---|--|
| National Inventory                                  | Status   |
| Australia - AIIC / Australia Non-<br>Industrial Use | No (mineral oil)   |
| Canada - DSL  | No (mineral oil)   |
| Canada - NDSL                                       | No (mineral oil; naphthenic distillate, heavy, hydrotreated (severe); naphthenic distillate, light, hydrotreated (severe); magnesium aluminosilicate)  |
| China - IECSC                                       | No (mineral oil)   |
| Europe - EINEC / ELINCS /<br>NLP                    | No (mineral oil)   |
| Japan - ENCS  | No (magnesium aluminosilicate)   |
| Korea - KECI  | No (mineral oil)   |
| New Zealand - NZIoC                                 | No (mineral oil)   |
| Philippines - PICCS                                 | No (mineral oil)   |
| USA - TSCA  | TSCA Inventory 'Active' substance(s) (naphthenic distillate, heavy, hydrotreated (severe); naphthenic distillate, light, hydrotreated (severe); magnesium aluminosilicate); No (mineral oil)   |
| Taiwan - TCSI                                       | No (mineral oil)   |
| Mexico - INSQ                                       | No (mineral oil; naphthenic distillate, light, hydrotreated (severe))  |
| Vietnam - NCI                                       | No (mineral oil)   |
| Russia - FBEPH                                      | No (mineral oil; magnesium aluminosilicate)  |
| 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 | 23/12/2022 |
|---------------|------------|
| Initial Date  | 12/01/2015 |

# SDS Version Summary

|         | - |                |  |
|---------|---|----------------|--|
| Version |   | Date of Update | Sections Updated   |
| 4.1     |   | 01/11/2019     | One-off system update. NOTE: This may or may not change the GHS classification |
| 5.1     |   | 23/12/2022     | Classification review due to GHS Revision change.                              |

### 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
- ▶ AIIC: Australian Inventory of Industrial Chemicals

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▶ 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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