

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil Lucas Oil Products UK (MT)

Part Number: 47020, 47021, 47022, 47023

Version No: 1.1

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

Issue Date: **15/04/2024**Print Date: **17/04/2024**S.REACH.MLT.EN

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

1.1. Product Identifier

| Product name | Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil | | |
|-------------------------------|---|--|--|
| Chemical Name | Not Applicable | | |
| Synonyms | Mixture | | |
| Chemical formula | Not Applicable | | |
| Other means of identification | Not Available | | |

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

| Product Category Consumer | PC24 Lubricants, greases, release products | |
|---------------------------|--|--|
| Relevant identified uses | Use according to manufacturer's directions. | |
| Uses advised against | No specific uses advised against are identified. | |

1.3. Details of the manufacturer or supplier of the safety data sheet

| Registered company name | Lucas Oil Products UK (MT) | Lucas Oil Products Europe Ltd | |
|-------------------------|--|--|--|
| Address | Unit 4 Cunliffe Drive Llangefni Industrial Estate LL77 7JA Llangefni Great Britain | Block 3 Harcourt Centre Dublin 2 Ireland | |
| Telephone | +44 (0) 1248 723 666 | +44 344 225 5400 | |
| Fax | Not Available | Not Available | |
| Website | www.lucasoil.co.uk | www.lucasoil.eu.com | |
| Email | Info@LucasOil.co.uk | info@lucasoil.eu.com | |

1.4. Emergency telephone number

| Association / Organisation | Medicines & Poisons Info Office | ChemTel |
|-----------------------------------|---------------------------------|--|
| Emergency telephone numbers | +356 2545 6508 | 1-800-255-3924 (USA, Canada, Puerto Rico, US V.I.) |
| Other emergency telephone numbers | Not Available | +1-813-248-0585 (International) |

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

| Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1] | Not Applicable |
|---|----------------|
|---|----------------|

2.2. Label elements

| Hazard pictogram(s) | Not Applicable |
|---------------------|----------------|
| Signal word | Not Applicable |

Hazard statement(s)

Not Applicable

Supplementary statement(s)

| cuppionian, ciatomonico, | |
|--------------------------|--|
| EUH208 | Contains maleic anhydride. May produce an allergic reaction. |

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

Page 2 of 15 Issue Date: 15/04/2024 Version No: 1.1 Print Date: 17/04/2024

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

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

2.3. Other hazards

| paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346) | Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply) |
|---|--|
| paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346) | Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply) |
| paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply) |
| paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply) |
| paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | Determined to have endocrine-disrupting properties according to Europe Regulation (EU) 528/2012, Europe Regulation (EU) 2017/2100, and Europe Regulation (EU) 2018/605 |

SECTION 3 Composition / information on ingredients

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

| 1. CAS No 2.EC No 3.Index No 4.REACH No | % [weight] | Name | Classification according to regulation (EC) No 1272/2008 [CLP] and amendments | SCL / M- Factor | Nanoform Particle Characteristics |
|---|---------------|--|--|--|---|
| 1. 64742-54-7.* 2.265-157-1 3.649-467-00-8 4.Not Available | 0-75 | paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346) | Aspiration Hazard Category 1; H304 ^[1] | Not Available | Not Available |
| 1. 64742-55-8.* 2.265-158-7 3.649-468-00-3 4.Not Available | 0-75 | paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346) | Aspiration Hazard Category 1; H304 ^[1] | Not Available | Not Available |
| 1. 64742-56-9.* 2.265-159-2 3.649-469-00-9 4.Not Available | 0-75 | paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | Aspiration Hazard Category 1; H304 ^[1] | Not Available | Not Available |
| 1. 64742-65-0.* 2.265-169-7 3.649-474-00-6 4.Not Available | 0-75 | paraffinic distillate, heavy, solvent- dewaxed (severe) (DMSO <3% w/w by IP 346) [e] | Aspiration Hazard Category 1; H304 ^[1] | Not Available | Not Available |
| 1. Not Available 2.Not Available 3.Not Available 4.Not Available | <3 | Calcium branched chain alkyl phenate sulphide (overbased) | Hazardous to the Aquatic Environment Long-Term Hazard Category 4; H413 [1] | Not Available | Not Available |
| 1. 108-31-6 2.203-571-6 3.607-096-00-9 4.Not Available | <0.001 | maleic anhydride | Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 1B, Sensitisation (Skin) Category 1A, Serious Eye Damage/Eye Irritation Category 1, Sensitisation (Respiratory) Category 1, Specific Target Organ Toxicity - Repeated Exposure Category 1; H302, H314, H317, H318, H334, H372 [2] | Skin Sens. 1A; H317: C ≥ 0,001 % | Not Available |
| Legend: | | • | fication drawn from Regulation (EU) No 1272/2008 - Annex VI; 3 ified as having endocrine disrupting properties | 3. Classification d | rawn from C&L * E |

SECTION 4 First aid measures

Page 3 of 15

Version No: 1.1 Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

Issue Date: **15/04/2024**Print Date: **17/04/2024**

4.1. Description of first aid measures

| Eye Contact | If this product comes in contact with eyes: • Wash out immediately with water. • If irritation continues, seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
|--------------|--|
| Skin Contact | If skin or hair contact occurs: ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation. |
| Inhalation | If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. |
| Ingestion | Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. |

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media

- Foam.
- ► Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

5.2. Special hazards arising from the substrate or mixture

| Fire Incompatibility | None known. | | | |
|------------------------------|---|--|--|--|
| 5.3. Advice for firefighters | | | | |
| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. | | | |
| Fire/Explosion Hazard | Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit irritating/ toxic fumes. May emit acrid smoke. Mists containing combustible materials may be explosive. | | | |

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

| 6.3. Methods and material for containment and cleaning up | | |
|---|--|--|
| Minor Spills | Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal. | |
| Major Spills | Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by all means available, spillage from entering drains or water courses. Consider evacuation (or protect in place). No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse / absorb vapour. Contain or absorb spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. | |

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

Issue Date: 15/04/2024 Print Date: 17/04/2024

- After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
- ▶ If contamination of drains or waterways occurs, advise emergency services.

6.4. Reference to other sections

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

SECTION 7 Handling and storage

| 7.1. Precautions for safe handl | ing |
|---------------------------------|--|
| Safe handling | Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions. |
| Fire and explosion protection | See section 5 |
| Other information | Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. |

7.2. Conditions for safe storage, including any incompatibilities

| Suitable container | Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. |
|--|--|
| Storage incompatibility | None known |
| Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III) | Not Available |
| Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of | Not Available |

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

| Ingredient | DNELs Exposure Pattern Worker | PNECs Compartment |
|--|---|---|
| maleic anhydride | Dermal 0.2 mg/kg bw/day (Systemic, Chronic) Inhalation 0.081 mg/m³ (Systemic, Chronic) Inhalation 0.081 mg/m³ (Local, Chronic) Dermal 0.2 mg/kg bw/day (Systemic, Acute) Inhalation 0.2 mg/m³ (Systemic, Acute) Inhalation 0.2 mg/m³ (Local, Acute) Dermal 0.1 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.05 mg/m³ (Systemic, Chronic) * Oral 0.06 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.08 mg/m³ (Local, Chronic) * Dermal 0.1 mg/kg bw/day (Systemic, Acute) * Inhalation 0.25 (Systemic, Acute) * Oral 0.1 mg/kg bw/day (Systemic, Acute) * | 0.038 mg/L (Water (Fresh)) 0.379 mg/L (Water - Intermittent release) 0.004 mg/L (Water (Marine)) 0.06 mg/kg sediment dw (Sediment (Fresh Water)) 0.006 mg/kg sediment dw (Sediment (Marine)) 0.01 mg/kg soil dw (Soil) 4.46 mg/L (STP) 6.67 mg/kg food (Oral) |
| paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346) | Dermal 0.97 mg/kg bw/day (Systemic, Chronic) Inhalation 2.73 mg/m³ (Systemic, Chronic) Inhalation 5.58 mg/m³ (Local, Chronic) Oral 0.74 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.19 mg/m³ (Local, Chronic) * | 9.33 mg/kg food (Oral) |
| paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346) | Dermal 0.97 mg/kg bw/day (Systemic, Chronic) Inhalation 2.73 mg/m³ (Systemic, Chronic) Inhalation 5.58 mg/m³ (Local, Chronic) | 9.33 mg/kg food (Oral) |

Page **5** of **15**

Version No: 1.1

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

Issue Date: **15/04/2024**Print Date: **17/04/2024**

| Ingredient | DNELs Exposure Pattern Worker | PNECs Compartment |
|---|---|------------------------|
| | Oral 0.74 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.19 mg/m³ (Local, Chronic) * | |
| paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | Dermal 0.97 mg/kg bw/day (Systemic, Chronic) Inhalation 2.73 mg/m³ (Systemic, Chronic) Inhalation 5.58 mg/m³ (Local, Chronic) Oral 0.74 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.19 mg/m³ (Local, Chronic) * | 9.33 mg/kg food (Oral) |
| paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | Dermal 0.97 mg/kg bw/day (Systemic, Chronic) Inhalation 2.73 mg/m³ (Systemic, Chronic) Inhalation 5.58 mg/m³ (Local, Chronic) Oral 0.74 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.19 mg/m³ (Local, Chronic) * | 9.33 mg/kg food (Oral) |

^{*} Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Not Available |

Not Applicable

Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|---|---------------|---------------|---------------|
| maleic anhydride | Not Available | Not Available | Not Available |
| paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346) | 140 mg/m3 | 1,500 mg/m3 | 8,900 mg/m3 |
| paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346) | 140 mg/m3 | 1,500 mg/m3 | 8,900 mg/m3 |
| paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | 140 mg/m3 | 1,500 mg/m3 | 8,900 mg/m3 |
| paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | 140 mg/m3 | 1,500 mg/m3 | 8,900 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|---|---------------|---------------|
| maleic anhydride | 10 mg/m3 | Not Available |
| paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346) | 2,500 mg/m3 | Not Available |
| Calcium branched chain alkyl phenate sulphide (overbased) | Not Available | Not Available |
| paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346) | 2,500 mg/m3 | Not Available |
| paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | 2,500 mg/m3 | Not Available |
| paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | 2,500 mg/m3 | Not Available |

Occupational Exposure Banding

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|------------------|---|--|
| maleic anhydride | E | ≤ 0.01 mg/m³ |
| Notes: | Occupational exposure banding is a process of assigning chemicals into adverse health outcomes associated with exposure. The output of this p to a range of exposure concentrations that are expected to protect work | rocess is an occupational exposure band (OEB), which corresponds |

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

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

▶ Employees exposed to confirmed human carcinogens should be authorized to do so by the employer, and work in a regulated area.

Part Number: 47020, 47021, 47022, 47023

Page 6 of 15

Version No: 1.1

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

Issue Date: 15/04/2024 Print Date: 17/04/2024

- ▶ Work should be undertaken in an isolated system such as a "glove-box" . Employees should wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system.
- Within regulated areas, the carcinogen should be stored in sealed containers, or enclosed in a closed system, including piping systems, with any sample ports or openings closed while the carcinogens are contained within.
- Open-vessel systems are prohibited.
- Each operation should be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation.
- Exhaust air should not be discharged to regulated areas, non-regulated areas or the external environment unless decontaminated. Clean make-up air should be introduced in sufficient volume to maintain correct operation of the local exhaust system.
- For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood. Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.
- Except for outdoor systems, regulated areas should be maintained under negative pressure (with respect to non-regulated areas).
- Local exhaust ventilation requires make-up air be supplied in equal volumes to replaced air.
- Laboratory hoods must be designed and maintained so as to draw air inward at an average linear face velocity of 0.76 m/sec with a minimum of 0.64 m/sec. Design and construction of the fume hood requires that insertion of any portion of the employees body, other than hands and arms, be disallowed.

8.2.2. Individual protection measures, such as personal protective equipment







Eye and face protection

"Safety glasses with side shields

Chemical goggles Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]"

Skin protection

Hands/feet protection

See Hand protection below

Wear general protective gloves, eg. light weight rubber gloves.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- · frequency and duration of contact,
- · chemical resistance of glove material,
- glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.

· When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161,10.1 or national equivalent) is recommended.

- · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- · Contaminated gloves should be replaced.

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

- Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent
- ▶ Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filtertype respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent]
- Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.
- Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with

Page **7** of **15**

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

Issue Date: 15/04/2024 Print Date: 17/04/2024

suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood.

Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the

garments and hood.

No special equipment needed when handling small quantities.

OTHERWISE:

- Overalls.
- Barrier cream.
- Eyewash unit.

8.2.3. Environmental exposure controls

See section 12

Version No: 1.1

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Appearance | Amber Clear and Bright Oil | | |
|--|----------------------------|---|---------------|
| Physical state | Liquid | Relative density (Water = 1) | 0.845 |
| 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) | -42 | Viscosity (cSt) | 43.3 @ 40°C |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Available |
| Flash point (°C) | 232 | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water | Immiscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |
| Nanoform Solubility | Not Available | Nanoform Particle Characteristics | Not Available |
| Particle Size | Not Available | | |

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

| 10.1.Reactivity | See section 7.2 |
|--|---|
| 10.2. Chemical stability | Product is considered stable and hazardous polymerisation will not occur. |
| 10.3. Possibility of hazardous reactions | See section 7.2 |
| 10.4. Conditions to avoid | See section 7.2 |
| 10.5. Incompatible materials | See section 7.2 |
| 10.6. Hazardous decomposition products | See section 5.3 |

SECTION 11 Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. |
|--------------|---|
| Ingestion | The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. |
| Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. |
| Eye | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn). |

Page 8 of 15

Version No: 1.1

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

Issue Date: 15/04/2024 Print Date: 17/04/2024

Chronic

There is sufficient evidence to suggest that this material directly causes cancer in humans.

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

| Lucas Oil Synthetic 5W-20 | TOXICITY | IRRITATION | |
|---|---|--|--|
| ECO-FD Engine Oil | Not Available | Not Available | |
| | TOXICITY | IRRITATION | |
| | Dermal (rabbit) LD50: 2620 mg/kg ^[2] | Eye (rabbit): 1% - SEVERE | |
| maleic anhydride | Inhalation (Rat) LC50: >1.088 mg/l4h ^[1] | Eye: adverse effect observed (irritating) ^[1] | |
| | Oral (Rat) LD50: 400 mg/kg ^[2] | Skin: adverse effect observed (corrosive) ^[1] | |
| | TOXICITY | IRRITATION | |
| paraffinic distillate, heavy, hydrotreated (severe) (DMSO | Dermal (rabbit) LD50: >5000 mg/kg ^[2] | Eye: no adverse effect observed (not irritating) ^[1] | |
| <3% w/w by IP 346) | Oral (Rat) LD50: >15000 mg/kg ^[2] | Skin: no adverse effect observed (not irritating) $^{[1]}$ | |
| Calcium branched chain alkyl phenate sulphide (overbased) | тохісіту | IRRITATION | |
| | Not Available | Not Available | |
| paraffinic distillate, light, | TOXICITY | IRRITATION | |
| hydrotreated (severe) (DMSO | Oral (Rat) LD50: >5000 mg/kg * ^[2] | Eye: no adverse effect observed (not irritating) ^[1] | |
| <3% w/w by IP 346) | | Skin: no adverse effect observed (not irritating) $^{[1]}$ | |
| | TOXICITY | IRRITATION | |
| paraffinic distillate, light, | Dermal (rabbit) LD50: >2000 mg/kg ^[2] | Eye: no adverse effect observed (not irritating) ^[1] | |
| solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | Inhalation (Rat) LC50: 2.18 mg/l4h ^[2] | Skin: no adverse effect observed (not irritating) ^[1] | |
| | Oral (Rat) LD50: >5000 mg/kg ^[2] | | |
| | TOXICITY | IRRITATION | |
| paraffinic distillate, heavy, | Dermal (rabbit) LD50: >2000 mg/kg ^[2] | Eye: no adverse effect observed (not irritating) ^[1] | |
| solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | Inhalation (Rat) LC50: 2.18 mg/l4h ^[2] | Skin: no adverse effect observed (not irritating) ^[1] | |
| | Oral (Rat) LD50: >5000 mg/kg ^[2] | | |

specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

MALEIC ANHYDRIDE

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

Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Allergic potential of the allergen and period of exposure often determine the severity of symptoms. Some people may be genetically more prone than others, and exposure to other irritants may aggravate symptoms. Allergy causing activity is due to interactions with proteins. Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure. Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346)

* Q8 MSDS

paraffinic distillate, heavy solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of nparaffins 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.

Version No: 1.1

Page **9** of **15**

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

Issue Date: **15/04/2024**Print Date: **17/04/2024**

Lucas Oil Synthetic 5W-20
ECO-FD Engine Oil &
paraffinic distillate, heavy,
hydrotreated (severe) (DMSO
<3% w/w by IP 346) &
paraffinic distillate, light,
hydrotreated (severe) (DMSO
<3% w/w by IP 346) &
paraffinic distillate, light,
solvent-dewaxed (severe)
(DMSO <3% w/w by IP 346) &
paraffinic distillate, heavy,
solvent-dewaxed (severe)

(DMSO <3% w/w by IP 346)

paraffinic distillate, heavy,

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.

Unrefined & mildly refined distillate base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon molecules and have shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and mildly refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have demonstrated very low mammalian toxicity. Testing of residual oils for mutation-causing and cancer-causing potential has shown negative results, supporting the belief that these materials lack biologically active components or the components are largely non-bioavailable due to their molecular size.

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

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

For highly and severely refined distillate base oils:

In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal dose by skin contact is >2g/kg body weight. The semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-irritating" to "moderately irritating" when tested for skin and eye irritation. Testing for sensitisation has been negative. The effects of repeated exposure vary by species; in animals, effects to the testes and lung have been observed, as well as the formation of granulomas. In animals, these substances have not been found to cause reproductive toxicity or significant increases in birth defects. They are also not considered to cause cancer, mutations or chromosome aberrations.

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

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

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

No significant acute toxicological data identified in literature search.

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

Legend:

💢 – Data either not available or does not fill the criteria for classification

🛹 – Data available to make classification

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

Many chemicals may mimic or interfere with the body s hormones, known as the endocrine system. Endocrine disruptors are chemicals that can interfere with endocrine (or hormonal) systems.

Endocrine disruptors interfere with the synthesis, secretion, transport, binding, action, or elimination of natural hormones in the body. Any system in the body controlled by hormones can be derailed by hormone disruptors. Specifically, endocrine disruptors may be associated with the development of learning disabilities, deformations of the body various cancers and sexual development problems.

Endocrine disrupting chemicals cause adverse effects in animals. But limited scientific information exists on potential health problems in humans. Because people are typically exposed to multiple endocrine disruptors at the same time, assessing public health effects is difficult.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

| Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil | Endpoint | Test Duration (hr) | Species | Value | Source |
|--|------------------|--------------------|-------------------------------|------------------|------------------|
| | Not Available | Not Available | Not Available | Not Available | Not Available |
| maleic anhydride | Endpoint | Test Duration (hr) | Species | Value | Source |
| | ErC50 | 72h | Algae or other aquatic plants | 29mg/l | 1 |
| | EC50 | 72h | Algae or other aquatic plants | 29mg/l | 1 |
| | LC50 | 96h | Fish | 75mg/l | 2 |
| | EC50 | 48h | Crustacea | 42.81mg/l | 2 |
| | NOEC(ECx) | 504h | Crustacea | 10mg/l | 1 |

Page 10 of 15

Version No: 1.1

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

Issue Date: **15/04/2024**Print Date: **17/04/2024**

| Endpoint | Test Duration (hr) | Species | Value | Source |
|------------------|--|--|---|---|
| ErC50 | 72h | Algae or other aquatic plants | >1000mg/l | 1 |
| NOEC(ECx) | 504h | Crustacea | >1mg/l | 1 |
| EC50 | 96h | Algae or other aquatic plants | >1000mg/l | 1 |
| EC50 | 48h | Crustacea | >1000mg/l | 1 |
| Endpoint | Test Duration (hr) | Species | Value | Source |
| Not Available | Not Available | Not Available | Not Available | Not Available |
| Endpoint | Test Duration (hr) | Species | Value | Source |
| NOEC(ECx) | 504h | Crustacea | >1mg/l | 1 |
| EC50 | 48h | Crustacea | >1000mg/l | 1 |
| Endpoint | Test Duration (hr) | Species | Value | Source |
| NOEC(ECx) | 504h | Crustacea | >1mg/l | 1 |
| EC50 | 48h | Crustacea | >1000mg/l | 1 |
| Endpoint | Test Duration (hr) | Species | Value | Source |
| ErC50 | 72h | Algae or other aquatic plants | >1000mg/l | 1 |
| NOEC(ECx) | 504h | Crustacea | >1mg/l | 1 |
| EC50 | 96h | Algae or other aquatic plants | >1000mg/l | 1 |
| EC50 | 48h | Crustacea | >1000mg/l | 1 |
| | ErC50 NOEC(ECx) EC50 EC50 Endpoint Not Available Endpoint NOEC(ECx) EC50 Endpoint NOEC(ECx) EC50 Endpoint NOEC(ECx) EC50 Endpoint EC50 Endpoint EC50 | ErC50 72h NOEC(ECx) 504h EC50 96h EC50 48h Endpoint Test Duration (hr) Not Available Not Available Endpoint Test Duration (hr) NOEC(ECx) 504h Ec50 48h Endpoint Test Duration (hr) NOEC(ECx) 504h Ec50 48h Endpoint Test Duration (hr) ErC50 72h NOEC(ECx) 504h EC50 96h | ErC50 72h Algae or other aquatic plants NOEC(ECx) 504h Crustacea EC50 96h Algae or other aquatic plants EC50 48h Crustacea Endpoint Test Duration (hr) Species Not Available Not Available Not Available Endpoint Test Duration (hr) Species NOEC(ECx) 504h Crustacea Endpoint Test Duration (hr) Species NOEC(ECx) 504h Crustacea Endpoint Test Duration (hr) Species Endpoint Test Duration (hr) Species Crustacea Endpoint Test Duration (hr) Species NOEC(ECx) 504h Crustacea Endpoint Test Duration (hr) Species EC50 48h Crustacea EC50 48h Crustacea EC50 504h Crustacea Endpoint Test Duration (hr) Species ErC50 72h Algae or other aquatic plants NOEC(ECx) 504h Crustacea EC50 96h Algae or other aquatic plants | ErC50 72h Algae or other aquatic plants >1000mg/l NOEC(ECx) 504h Crustacea >1mg/l EC50 96h Algae or other aquatic plants >1000mg/l EC50 48h Crustacea >1000mg/l Endpoint Test Duration (hr) Species Value Not Available Not Available Not Available Endpoint Test Duration (hr) Species Value NOEC(ECx) 504h Crustacea >1mg/l EC50 48h Crustacea >1mg/l Endpoint Test Duration (hr) Species Value NOEC(ECx) 504h Crustacea >1mg/l EC50 48h Crustacea >1000mg/l Endpoint Test Duration (hr) Species Value EC50 48h Crustacea >1000mg/l Endpoint Test Duration (hr) Species Value EC50 72h Algae or other aquatic plants >1000mg/l NOEC(ECx) 504h |

12.2. Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------------|-------------------------|------------------|
| maleic anhydride | HIGH | HIGH |

12.3. Bioaccumulative potential

| Ingredient | Bioaccumulation |
|------------------|-----------------------|
| maleic anhydride | LOW (LogKOW = 1.6187) |

12.4. Mobility in soil

| Ingredient | Mobility |
|------------------|--------------------|
| maleic anhydride | HIGH (Log KOC = 1) |

12.5. Results of PBT and vPvB assessment

| | P | В | Т |
|-------------------------|---------------|---------------|---------------|
| Relevant available data | Not Available | Not Available | Not Available |
| PBT | × | × | × |
| vPvB | X | × | × |
| PBT Criteria fulfilled? | | | |
| vPvB | | | No |

12.6. Endocrine disrupting properties

The evidence linking adverse effects to endocrine disruptors is more compelling in the environment than it is in humans. Endocrine distruptors profoundly alter reproductive physiology of ecosystems and ultimately impact entire populations. Some endocrine-disrupting chemicals are slow to break-down in the environment. That characteristic makes them potentially hazardous over long periods of time. Some well established adverse effects of endocrine disruptors in various wildlife species include; eggshell-thinning, displayed of characteristics of the opposite sex and impaired reproductive development. Other adverse changes in wildlife species that have been suggested, but not proven include; reproductive abnormalities, immune dysfunction and skeletal deformaties.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal

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

Otherwise:

Version No: 1.1

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

Issue Date: 15/04/2024 Print Date: 17/04/2024

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse Recycling Disposal (if all else fails)

 - This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.
 - ▶ **DO NOT** allow wash water from cleaning or process equipment to enter drains.
 - It may be necessary to collect all wash water for treatment before disposal.
 - In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
 - Where in doubt contact the responsible authority.
 - ▶ Recycle wherever possible or consult manufacturer for recycling options.
 - Consult State Land Waste Management Authority for disposal.
 - Bury residue in an authorised landfill.
 - Recycle containers if possible, or dispose of in an authorised landfill.

Waste treatment options Sewage disposal options

Not Available Not Available

SECTION 14 Transport information

Labels Required

| Marine Pollutant | NO |
|------------------|----|

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

| 14.1. UN number or ID number | Not Applicable | | |
|------------------------------------|--------------------------|------------------------|--|
| 14.2. UN proper shipping name | Not Applicable | | |
| 14.3. Transport hazard | Class | Not Applicable | |
| class(es) | Subsidiary Hazard | Not Applicable | |
| 14.4. Packing group | Not Applicable | | |
| 14.5. Environmental hazard | Not Applicable | | |
| | Hazard identification (I | Kemler) Not Applicable | |
| | Classification code | Not Applicable | |
| 14.6. Special precautions for user | Hazard Label | Not Applicable | |
| | Special provisions | Not Applicable | |
| | Limited quantity | Not Applicable | |
| | Tunnel Restriction Cod | de Not Applicable | |
| | I | | |

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

| 14.1. UN number | Not Applicable | | | |
|------------------------------------|--|--------------------------------|----------------|--|
| 14.2. UN proper shipping name | Not Applicable | | | |
| | ICAO/IATA Class | ICAO/IATA Class Not Applicable | | |
| 14.3. Transport hazard class(es) | ICAO / IATA Subsidiary Hazard | Not Applicable | | |
| 3.835(33) | ERG Code | Not Applicable | | |
| 14.4. Packing group | Not Applicable | | | |
| 14.5. Environmental hazard | Not Applicable | | | |
| | Special provisions | | Not Applicable | |
| | Cargo Only Packing Instructions | | Not Applicable | |
| | Cargo Only Maximum Qty / Pack | | Not Applicable | |
| 14.6. Special precautions for user | Passenger and Cargo Packing Instructions | | Not Applicable | |
| usei | Passenger and Cargo Maximum | Qty / Pack | Not Applicable | |
| | Passenger and Cargo Limited Qu | uantity Packing Instructions | Not Applicable | |
| | Passenger and Cargo Limited Ma | aximum Qty / Pack | Not Applicable | |

Part Number: 47020, 47021, 47022, 47023

Issue Date: 15/04/2024 Version No: 1.1 Print Date: 17/04/2024 Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

| | 1 | | | |
|------------------------------------|----------------------|--------------------|--|--|
| 14.1. UN number | Not Applicable | Not Applicable | | |
| 14.2. UN proper shipping name | Not Applicable | | | |
| 14.3. Transport hazard | IMDG Class | Not Applicable | | |
| class(es) | IMDG Subsidiary Haza | ard Not Applicable | | |
| 14.4. Packing group | Not Applicable | | | |
| 14.5 Environmental hazard | Not Applicable | | | |
| 14.6. Special precautions for user | EMS Number | Not Applicable | | |
| | Special provisions | Not Applicable | | |
| | Limited Quantities | Not Applicable | | |

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

| | ., | | | |
|------------------------------------|--|--------------------------------|--|--|
| 14.1. UN number | Not Applicable | Not Applicable | | |
| 14.2. UN proper shipping name | Not Applicable | | | |
| 14.3. Transport hazard class(es) | Not Applicable Not Applicable | | | |
| 14.4. Packing group | Not Applicable | | | |
| 14.5. Environmental hazard | Not Applicable | | | |
| | Classification code Special provisions | Not Applicable Not Applicable | | |
| 14.6. Special precautions for user | Limited quantity | Not Applicable | | |
| | Equipment required | Not Applicable | | |
| | Fire cones number | Not Applicable | | |
| | | | | |

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name | Group |
|---|---------------|
| maleic anhydride | Not Available |
| paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346) | Not Available |
| Calcium branched chain alkyl phenate sulphide (overbased) | Not Available |
| paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346) | Not Available |
| paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | Not Available |
| paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | Not Available |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|---|---------------|
| maleic anhydride | Not Available |
| paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346) | Not Available |
| Calcium branched chain alkyl phenate sulphide (overbased) | Not Available |
| paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346) | Not Available |
| paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | Not Available |
| paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) | Not Available |

Issue Date: 15/04/2024 Print Date: 17/04/2024

SECTION 15 Regulatory information

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

maleic anhydride is found on the following regulatory lists

EU European Chemicals Agency (ECHA) Community Rolling Action Plan (CoRAP) List of Substances

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: Category 1 B

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

Calcium branched chain alkyl phenate sulphide (overbased) is found on the following regulatory lists

Not Applicable

paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: Category 1 B

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: Category 1 B

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: Category 1 B

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

Additional Regulatory Information

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

National Inventory Status

| National Inventory | Status |
|---|---|
| Australia - AIIC / Australia Non- Industrial Use | Yes |
| Canada - DSL | Yes |
| Canada - NDSL | No (maleic anhydride; paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346); paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346); paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346); paraffinic distillate, heavy, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)) |
| China - IECSC | Yes |

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

Issue Date: 15/04/2024 Print Date: 17/04/2024

| National Inventory | Status |
|----------------------------------|--|
| Europe - EINEC / ELINCS / NLP | Yes |
| Japan - ENCS | Yes |
| Korea - KECI | Yes |
| New Zealand - NZIoC | Yes |
| Philippines - PICCS | Yes |
| USA - TSCA | Yes |
| Taiwan - TCSI | Yes |
| Mexico - INSQ | No (paraffinic distillate, light, hydrotreated (severe) (DMSO <3% w/w by IP 346); paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)) |
| Vietnam - NCI | Yes |
| Russia - FBEPH | No (paraffinic distillate, light, solvent-dewaxed (severe) (DMSO <3% w/w by IP 346)) |
| 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 | 15/04/2024 |
|---------------|------------|
| Initial Date | 16/04/2024 |

Full text Risk and Hazard codes

| H302 | Harmful if swallowed. |
|------|--|
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ▶ TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- ▶ OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- ▶ 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
- AllC: 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

Part Number: 47020, 47021, 47022, 47023 Page **15** of **15** Issue Date: 15/04/2024 Version No: 1.1 Print Date: 17/04/2024

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

- ▶ NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
 ▶ TSCA: Toxic Substances Control Act

- TCSI: Taiwan Chemical Substance Inventory
 INSQ: Inventario Nacional de Sustancias Químicas
- ▶ NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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

| Classification according to regulation (EC) No 1272/2008 [CLP] and amendments | Classification Procedure |
|---|--------------------------|
| , EUH208 | Expert judgement |

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