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## AeroShell Turbine Oil 500

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|-------------------------------|--|-----------------------|
| SECTION 1. PRODUCT AND CON    | MPANY IDENTIFICATION   |                       |
| Product name                  | : AeroShell Turbine Oil 500  |                       |
| Product code                  | : 001A0083   |                       |
| Manufacturer or supplier's o  |  |                       |
| Supplier                      | : Petroleum Logistics<br>Unit 2, 4 Glover Street,<br>Ngauranga,<br>Wellington, 6035,<br>New Zealand    |                       |
| Telephone<br>Telefax          | : 04 233 6180  |                       |
| Emergency telephone<br>number | : 0800 428 383   |                       |
| Recommended use of the cl     | hemical and restrictions on use  |                       |
| Recommended use               | : Synthetic lubricating oil for aircraft details consult the AeroShell Book                            |                       |
| Restrictions on use           | : This product must be used, handle accordance with the requirements manufacturer's manuals, bulletins | of the equipment      |

### **SECTION 2. HAZARDS IDENTIFICATION**

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2017., Not classified as Dangerous Goods for transport, according to NZS 5433:2012 Transport of Dangerous Goods on Land.

| Hazard classification                                       |                             |
|---|-----------------------------|
| Hazardous Substances<br>Classification                      | : 9.1C                      |
| GHS Classification<br>Long-term (chronic) aquatic<br>hazard | : Aquatic Chronic3          |
| GHS label elements  |                             |
| Hazard pictograms   | : No Hazard Symbol required |
| Signal word   | : No signal word            |

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| Hazard statements        | <ul> <li>PHYSICAL HAZARDS:<br/>Not classified as a physical hazard under GHS criteria.<br/>HEALTH HAZARDS:<br/>Not classified as a health hazard under GHS criteria.<br/>ENVIRONMENTAL HAZARDS:<br/>H412 Harmful to aquatic life with long lasting effects.</li> </ul> |                                   |
| Precautionary statements | :<br><b>Prevention:</b><br>P273 Avoid release to the environment   | ent.                              |
|                          | <b>Response:</b><br>No precautionary phrases.  |                                   |
|                          | <b>Storage:</b><br>No precautionary phrases.   |                                   |
|                          | <b>Disposal:</b><br>P501 Dispose of contents/ container<br>disposal plant.   | <sup>.</sup> to an approved waste |

#### Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.Used oil may contain harmful impurities.Not classified as flammable but will burn.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Substance / Mixture | : | Mixture |
|---------------------|---|---------|
|---------------------|---|---------|

Chemical nature : Blend of synthetic esters and additives.

#### Hazardous components

| Chemical name            | CAS-No.   | Classification                         | Concentration (%<br>w/w) |
|--------------------------|-----------|--|--------------------------|
| N-phenyl-1-naphthylamine | 90-30-2   | Acute Tox.4; H302                      | 0.25 - 0.999             |
|                          |           | Skin Sens.1B; H317                     |                          |
|                          |           | STOT RE2; H373<br>Aquatic Acute1; H400 |                          |
|                          |           | Aquatic Chronic1; H410                 |                          |
| Triaryl phosphate        | 1330-78-5 | Repr.2; H361f                          | 0.25 - 0.999             |
|                          |           | Aquatic Acute1; H400                   |                          |
|                          |           | Aquatic Chronic1; H410                 |                          |

For explanation of abbreviations see section 16.

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| SECTION 4. FIRST-AID MEASUF                                 | RES   |                              |
| If inhaled  | : No treatment necessary under<br>If symptoms persist, obtain me  |                              |
| In case of skin contact                                     | : Remove contaminated clothing<br>water and follow by washing wi<br>If persistent irritation occurs, ob   | th soap if available.        |
| In case of eye contact                                      | <ul> <li>Flush eye with copious quantitie<br/>Remove contact lenses, if pres<br/>rinsing.</li> <li>If persistent irritation occurs, ob</li> </ul> | ent and easy to do. Continue |
| If swallowed  | : In general no treatment is nece are swallowed, however, get m   |                              |
| Most important symptoms and effects, both acute and delayed | : Oil acne/folliculitis signs and sy<br>of black pustules and spots on<br>Ingestion may result in nausea,   | the skin of exposed areas.   |
| Protection of first-aiders                                  | : When administering first aid, er<br>appropriate personal protective<br>incident, injury and surrounding   | equipment according to the   |
| Notes to physician  | : Treat symptomatically.  |                              |

### SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media         | : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.   |  |
|--------------------------------------|--|--|
| Unsuitable extinguishing media       | : Do not use water in a jet.   |  |
| Specific hazards during firefighting | <ul> <li>Hazardous combustion products may include:<br/>A complex mixture of airborne solid and liquid particulates at<br/>gases (smoke).</li> <li>Carbon monoxide may be evolved if incomplete combustion<br/>occurs.</li> <li>Unidentified organic and inorganic compounds.</li> </ul> |  |
| Specific extinguishing methods       | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  |  |
| Special protective equipment         | : Proper protective equipment including chemical resistant   |  |

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| for firefighters | gloves are to be worn; chemical re<br>large contact with spilled product i  |                       |
|                  | Breathing Apparatus must be worn when approaching a f<br>a confined space. Select fire fighter's clothing approved to<br>relevant Standards (e.g. Europe: EN469). |                       |

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

| Personal precautions,<br>protective equipment and<br>emergency procedures<br>Environmental precautions |   | Avoid contact with skin and eyes.<br>Local authorities should be advised if significant spillages<br>cannot be contained.  |
|--|---|--|
| Methods and materials for containment and cleaning up  | : | Slippery when spilt. Avoid accidents, clean up immediately.<br>Prevent from spreading by making a barrier with sand, earth<br>or other containment material.<br>Reclaim liquid directly or in an absorbent.<br>Soak up residue with an absorbent such as clay, sand or other<br>suitable material and dispose of properly. |
| Additional advice  | : | For guidance on selection of personal protective equipment<br>see Section 8 of this Safety Data Sheet.<br>For guidance on disposal of spilled material see Section 13 of<br>this Safety Data Sheet.  |

### SECTION 7. HANDLING AND STORAGE

| General Precautions     | : | Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.<br>Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.               |
|-------------------------|---|---|
| Advice on safe handling | : | Avoid prolonged or repeated contact with skin.<br>Avoid inhaling vapour and/or mists.<br>When handling product in drums, safety footwear should be<br>worn and proper handling equipment should be used.<br>Properly dispose of any contaminated rags or cleaning<br>materials in order to prevent fires. |
| Avoidance of contact    | : | Strong oxidising agents.  |
| Product Transfer        | : | Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulation.  |
| 01                      |   |   |

### Storage

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| Other data         | place.      | tainer tightly closed and in a early labeled and closable con                  |                           |
|                    | Store at a  | mbient temperature.  |                           |
| Packaging material | steel or hi | naterial: For containers or co<br>gh density polyethylene.<br>e material: PVC. | ntainer linings, use mild |
| Container Advice   |             | ene containers should not be<br>ures because of possible risk                  |                           |

### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Components with workplace control parameters

#### **Biological occupational exposure limits**

No biological limit allocated.

### Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

| Engineering measures | <ul> <li>The level of protection and types of controls necessary will<br/>vary depending upon potential exposure conditions. Select<br/>controls based on a risk assessment of local circumstances.<br/>Appropriate measures include:<br/>Adequate ventilation to control airborne concentrations.</li> </ul> |
|----------------------|---|
|                      | Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.   |

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|             | General Information:<br>Define procedures for safe handlin<br>controls.<br>Educate and train workers in the h<br>measures relevant to normal activity<br>product.<br>Ensure appropriate selection, testi   | azards and control<br>ities associated with this  |
|             | equipment used to control exposu<br>equipment, local exhaust ventilatic<br>Drain down system prior to equipn<br>maintenance.   | re, e.g. personal protective<br>on.   |
|             | Retain drain downs in sealed stora<br>subsequent recycle.<br>Always observe good personal hy<br>washing hands after handling the i<br>drinking, and/or smoking. Routine<br>protective equipment to remove co<br>contaminated clothing and footwea<br>Practice good housekeeping. | giene measures, such as<br>material and before eating,<br>ly wash work clothing and<br>ontaminants. Discard |

### Personal protective equipment

#### **Protective measures**

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

| Respiratory protection : | No respiratory protection is ordinarily required under normal conditions of use.<br>In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65°C (149°F)]. |
|--------------------------|--|
| Hand protection          |  |
| Remarks                  | Where hand contact with the product may occur the use of<br>gloves approved to relevant standards (e.g. Europe: EN374,<br>US: F739) made from the following materials may provide<br>suitable chemical protection. PVC, neoprene or nitrile rubber<br>gloves Suitability and durability of a glove is dependent on<br>usage, e.g. frequency and duration of contact, chemical<br>resistance of glove material, dexterity. Always seek advice<br>from glove suppliers. Contaminated gloves should be<br>replaced. Personal hygiene is a key element of effective hand   |

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|                           | care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.   |
|                           | For continuous contact we recommend gloves with<br>breakthrough time of more than 240 minutes with preference<br>for > 480 minutes where suitable gloves can be identified. For<br>short-term/splash protection we recommend the same but<br>recognize that suitable gloves offering this level of protection<br>may not be available and in this case a lower breakthrough<br>time maybe acceptable so long as appropriate maintenance<br>and replacement regimes are followed. Glove thickness is not<br>a good predictor of glove resistance to a chemical as it is<br>dependent on the exact composition of the glove material.<br>Glove thickness should be typically greater than 0.35 mm<br>depending on the glove make and model. |
| Eye protection            | : If material is handled such that it could be splashed into eyes, protective eyewear is recommended.   |
| Skin and body protection  | <ul> <li>Skin protection is not ordinarily required beyond standard<br/>work clothes.</li> <li>It is good practice to wear chemical resistant gloves.</li> </ul>  |
| Thermal hazards           | : Not applicable  |
| Environmental exposure of | controls  |
| General advice            | : Take appropriate measures to fulfill the requirements of<br>relevant environmental protection legislation. Avoid<br>contamination of the environment by following advice given in<br>Section 6. If necessary, prevent undissolved material from<br>being discharged to waste water. Waste water should be<br>treated in a municipal or industrial waste water treatment plant<br>before discharge to surface water.<br>Local guidelines on emission limits for volatile substances  |

Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance               | : Liquid at room temperature. |
|--------------------------|-------------------------------|
| Colour                   | : Various colours             |
| Odour                    | : Slight hydrocarbon          |
| Odour Threshold          | : Data not available          |
| рН                       | : Not applicable              |
| Melting / freezing point | : Data not available          |
|                          |                               |

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|--|--|
| pour point                                 | <= -54 °C / <= -65 °FMethod: ASTM D97                    |
| Initial boiling point and boiling range    | : > 280 °C / 536 °Festimated value(s)                    |
| Flash point                                | : 264 °C / 507 °F<br>Method: ASTM D92 (COC)              |
| Evaporation rate                           | : Data not available                                     |
| Flammability (solid, gas)                  | : Data not available                                     |
| Upper explosion limit                      | : Typical 10 %(V)  |
| Lower explosion limit                      | : Typical 1 %(V)   |
| Vapour pressure                            | : < 0.5 Pa (20 °C / 68 °F)<br>estimated value(s)         |
| Relative vapour density                    | : > 1estimated value(s)                                  |
| Relative density                           | : 1.005 (15 °C / 59 °F)                                  |
| Density                                    | : 1,005 kg/m3 (15.0 °C / 59.0 °F)<br>Method: Unspecified |
| Solubility(ies)                            |  |
| Water solubility                           | : negligible   |
| Solubility in other solvents               | : Data not available                                     |
| Partition coefficient: n-<br>octanol/water | : log Pow: > 6(based on information on similar products) |
| Auto-ignition temperature                  | : > 320 °C / 608 °F                                      |
| Decomposition temperature                  | : Data not available                                     |
| Viscosity                                  |  |
| Viscosity, dynamic                         | : Data not available                                     |
| Viscosity, kinematic                       | : 25.40 mm2/s (40.0 °C / 104.0 °F)<br>Method: ASTM D445  |
|  | 5.11 mm2/s (100 °C / 212 °F)<br>Method: ASTM D445        |
|  | 9215 mm2/s (-40 °C / -40 °F)<br>Method: ASTM D2532       |

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| Explosive properties | : Not classified                      |                         |
| Oxidizing properties | : Data not available                  |                         |
| Conductivity         | : This material is not expected to be | e a static accumulator. |

### SECTION 10. STABILITY AND REACTIVITY

| Reactivity                          | : The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph. |
|-------------------------------------|--|
| Chemical stability                  | : Stable.  |
| Possibility of hazardous reactions  | : Reacts with strong oxidising agents.   |
| Conditions to avoid                 | : Extremes of temperature and direct sunlight.   |
| Incompatible materials              | : Strong oxidising agents.   |
| Hazardous decomposition<br>products | : No decomposition if stored and applied as directed.  |

### SECTION 11. TOXICOLOGICAL INFORMATION

|     | Basis for assessment                     | : | Information given is based on data on the components and<br>the toxicology of similar products.Unless indicated otherwise,<br>the data presented is representative of the product as a<br>whole, rather than for individual component(s). |
|-----|--|---|---|
|     | Information on likely routes of exposure | : | Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.   |
| Αςι | ite toxicity                             |   |   |
|     | Product:                                 |   |   |
|     | Acute oral toxicity                      | : | LD50 rat: > 5,000 mg/kg<br>Remarks: Low toxicity:<br>Based on available data, the classification criteria are not met.  |
|     | Acute inhalation toxicity                | : | Remarks: Based on available data, the classification criteria are not met.  |
|     | Acute dermal toxicity                    | : | LD50 Rabbit: > 5,000 mg/kg<br>Remarks: Low toxicity:  |

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#### Skin corrosion/irritation

#### Product:

Remarks: Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

#### Serious eye damage/eye irritation

#### Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation

#### Product:

Remarks: Not a skin sensitiser. Based on available data, the classification criteria are not met.

#### Components:

**N-phenyl-1-naphthylamine:** Remarks: May cause an allergic skin reaction in sensitive individuals.

#### Chronic toxicity

#### Germ cell mutagenicity

#### Product:

: Remarks: Non mutagenic, Based on available data, the classification criteria are not met.

#### Carcinogenicity

#### Product:

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

| Material                 | GHS/CLP Carcinogenicity Classification |  |
|--------------------------|--|--|
| N-phenyl-1-naphthylamine | No carcinogenicity classification.     |  |
| Triaryl phosphate        | No carcinogenicity classification.     |  |

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| Reproductive toxicity |                          |                       |
| Product:              |                          |                       |
| Flouuci.              |                          |                       |

Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.

#### STOT - single exposure

#### Product:

Remarks: Based on available data, the classification criteria are not met.

#### **STOT - repeated exposure**

#### Product:

Remarks: Based on available data, the classification criteria are not met.

#### Aspiration toxicity

#### Product:

Not an aspiration hazard.

#### **Further information**

#### Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Slightly irritating to respiratory system.

#### **SECTION 12. ECOLOGICAL INFORMATION**

| Basis for assessment | <ul> <li>Ecotoxicological data have not been determined specifically<br/>for this product.</li> <li>Information given is based on a knowledge of the components<br/>and the ecotoxicology of similar products.</li> <li>Unless indicated otherwise, the data presented is<br/>representative of the product as a whole, rather than for<br/>individual component(s).(LL/EL/IL50 expressed as the<br/>nominal amount of product required to prepare aqueous test<br/>extract).</li> </ul> |
|----------------------|--|
|                      | oxidely.   |

#### Ecotoxicity

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| Product:  |   |   |                       |
| Toxicity to fish (Acute toxicity)   | : | Remarks: LL/EL/IL50 10-100 mg/l<br>Harmful  |                       |
| Toxicity to crustacean (Acute toxicity)   | : | Remarks: LL/EL/IL50 10-100 mg/l<br>Harmful  |                       |
| Toxicity to algae/aquatic plants (Acute toxicity)   | : | Remarks: LL/EL/IL50 10-100 mg/l<br>Harmful  |                       |
| Toxicity to fish (Chronic toxicity)   | : | Remarks: Data not available   |                       |
| Toxicity to crustacean<br>(Chronic toxicity)  | : | Remarks: Data not available   |                       |
| Toxicity to microorganisms<br>(Acute toxicity)  | : | Remarks: Data not available   |                       |
| <u>Components:</u><br>N-phenyl-1-naphthylamine :  |   |   |                       |
| M-Factor (Short-term (acute)  | : | 1   |                       |
| aquatic hazard)<br>M-Factor (Long-term<br>(chronic) aquatic hazard)<br><b>Triaryl phosphate :</b> | : | 1   |                       |
| M-Factor (Short-term (acute)  | : | 1   |                       |
| aquatic hazard)<br>M-Factor (Long-term<br>(chronic) aquatic hazard)                               | : | 1   |                       |
| ersistence and degradability  |   |   |                       |
| Product:  |   |   |                       |
| Biodegradability  | : | Remarks: Not readily biodegradable.<br>inherently biodegradable, but contain<br>persist in the environment. |                       |
| oaccumulative potential   |   |   |                       |
| Product:  |   |   |                       |
| Bioaccumulation   | : | Remarks: Contains components with bioaccumulate.  | the potential to      |
| Partition coefficient: n-<br>octanol/water  | : | log Pow: > 6Remarks: (based on info<br>products)  | rmation on similar    |
| obility in soil   |   |   |                       |
| Product:  |   |   |                       |
|   |   | Remarks: Liquid under most environr   |                       |

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|                                      | enters soil, it will adsorb to soil particles and will not be mobile.   |  |
| Other adverse effects                |   |  |
| no data available<br><u>Product:</u> |   |  |
| Additional ecological information    | <ul> <li>Does not have ozone depletion potent<br/>ozone creation potential or global warn<br/>is a mixture of non-volatile component<br/>released to air in any significant quant<br/>conditions of use.</li> <li>Poorly soluble mixture., Causes physi<br/>organisms.</li> </ul> | ming potential., Product<br>s, which will not be<br>ities under normal |

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

| Waste from residues :    | Recover or recycle if possible.<br>It is the responsibility of the waste generator to determine the<br>toxicity and physical properties of the material generated to<br>determine the proper waste classification and disposal<br>methods in compliance with applicable regulations.<br>Do not dispose into the environment, in drains or in water<br>courses  |
|--------------------------|--|
|                          | Waste product should not be allowed to contaminate soil or<br>ground water, or be disposed of into the environment.<br>Waste, spills or used product is dangerous waste.<br>Waste arising from a spillage or tank cleaning should be<br>disposed of in accordance with prevailing regulations,<br>preferably to a recognised collector or contractor. The<br>competence of the collector or contractor should be<br>established beforehand.<br>Do not dispose of tank water bottoms by allowing them to<br>drain into the ground. This will result in soil and groundwater<br>contamination. |
|                          | MARPOL - see International Convention for the Prevention of<br>Pollution from Ships (MARPOL 73/78) which provides<br>technical aspects at controlling pollutions from ships.   |
|                          | Disposal methods, including disposal of packaging, should be<br>in accordance with the Hazardous Substances (Disposal)<br>Notice 2017 and the Act.   |
| Contaminated packaging : | Dispose in accordance with prevailing regulations, preferably<br>to a recognized collector or contractor. The competence of<br>the collector or contractor should be established beforehand.<br>Disposal should be in accordance with applicable regional,   |

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|                              | national, and local laws and regulations.   |                       |
| Local legislation<br>Remarks | · Disposal should be in accordance  | with the New Zealand  |
| Remarks                      | <ul> <li>Disposal should be in accordance with the New Zealand<br/>Hazardous Substances Disposal Regulations 2001. Treat the<br/>substance using a method that changes the characteristics or<br/>composition of the substance so that the substance is no<br/>longer a hazardous substance.</li> </ul> |                       |

### **SECTION 14. TRANSPORT INFORMATION**

#### **National Regulations**

Land Transport Rule: Dangerous Goods 2012 -NZS 5433 Not regulated as a dangerous good

#### **International Regulations**

IATA-DGR Not regulated as a dangerous good

#### **IMDG-Code** Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

#### Special precautions for user

Remarks

: Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

### **SECTION 15. REGULATORY INFORMATION**

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

| R-phrase(s) | : R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
|-------------|----------|---|
| S-phrase(s) | : S61    | Avoid release to the environment. Refer to special instructions/ Safety data sheets.          |

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# AeroShell Turbine Oil 500

| Version 3.1 | Revision Date 30.06.2021 | Print Date 01.07.2021 |
|-------------|--------------------------|-----------------------|
|             |                          |                       |

### HSNO Approval Number

HSR002606

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

New Zealand Workplace Exposure Limits 2002 (WES). New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

#### Other international regulations

### The components of this product are reported in the following inventories:

| •      |                               |
|--------|-------------------------------|
| EINECS | : Notified with Restrictions. |
| TSCA   | : All components listed.      |
| NZIoC  | : Not all components listed.  |
|        |                               |

### SECTION 16. OTHER INFORMATION

#### Full text of H-Statements

| H302                  | Harmful if swallowed.   |
|-----------------------|---|
| H317                  | May cause an allergic skin reaction.                              |
| H361f                 | Suspected of damaging fertility.                                  |
| H373                  | May cause damage to organs through prolonged or repeated exposure |
|                       | if swallowed.   |
| H400                  | Very toxic to aquatic life.                                       |
| H410                  | Very toxic to aquatic life with long lasting effects.             |
| Full text of other ab | obreviations  |
| Acute Tox.            | Acute toxicity  |
| Aquatic Acute         | Short-term (acute) aquatic hazard                                 |
| Aquatic Chronic       | Long-term (chronic) aquatic bazard                                |

| Aquatic Chronic | Long-term (chronic) aquatic hazard                 |
|-----------------|--|
| Repr.           | Reproductive toxicity                              |
| Skin Sens.      | Skin sensitisation                                 |
| STOT RE         | Specific target organ toxicity - repeated exposure |
|                 |  |

#### **Abbreviations and Acronyms**

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -

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| International Organisatio<br>Lethal Concentration to 3<br>(Median Lethal Dose); N<br>Ships; n.o.s Not Other<br>Effect Concentration; NO<br>Effect Loading Rate; NC<br>New Zealand Inventory<br>Development; OPPTS -<br>Bioaccumulative and To<br>Substances; (Q)SAR - 0<br>No 1907/2006 of the E<br>Evaluation, Authorisation<br>Temperature; SDS - Sa<br>Transportation of Dange<br>Substances Control Ac<br>Recommendations on t<br>Bioaccumulative; WHMIS | Revision Date 30.06.2021 Print Date 01.07.2021<br>Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -<br>n for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -<br>50 % of a test population; LD50 - Lethal Dose to 50% of a test population<br>MARPOL - International Convention for the Prevention of Pollution from<br>wise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse)<br>D(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable<br>M - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -<br>of Chemicals; OECD - Organization for Economic Co-operation and<br>Office of Chemical Safety and Pollution Prevention; PBT - Persistent,<br>xic substance; PICCS - Philippines Inventory of Chemicals and Chemical<br>(Quantitative) Structure Activity Relationship; REACH - Regulation (EC)<br>European Parliament and of the Council concerning the Registration,<br>n and Restriction of Chemicals; SADT - Self-Accelerating Decomposition<br>fety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -<br>rous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic<br>t (United States); UN - United Nations; UNRTDG - United Nations<br>he Transport of Dangerous Goods; vPvB - Very Persistent and Very<br>S - Workplace Hazardous Materials Information System |
|--|--|
| Further information<br>Training advice   | : Provide adequate information, instruction and training for operators.  |
| Other information  | <ul> <li>A vertical bar ( ) in the left margin indicates an amendment<br/>from the previous version.</li> <li>For detailed advice on Personal Protective equipment, refer to<br/>the following Australian Standards :- HB 9 (Handbook 9)<br/>Manual of industrial personal protection. AS/NZS 1337 Eye<br/>protectors for industrial applications. AS/NZS 1715 Selection,</li> </ul>   |

Sources of key data used to compile the Safety Data Sheet : The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).

use and maintenance of respiratory protective devices.

AS/NZS 1716 Respiratory protective devices.

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|---------|-----|
| 1011    | 0.1 |

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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