

# SAFETY DATA SHEET

# ExxonMobil

MOBILTRANS AST 40

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

### 1.1 Product identifier

**Product name** : MOBILTRANS AST 40

**Product description** : base oil and additives

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

**Intended Use** : Hydraulic fluid, Manual transmission fluid

**Identified uses**

Not applicable.

**Uses advised against**

Not applicable.

**Uses advised against** : This product is not recommended for any industrial, professional or consumer use other than the Identified Uses above.

### 1.3 Details of the supplier of the safety data sheet

**Supplier** : ExxonMobil Petroleum & Chemical BV  
POLDERDIJKWEG  
Antwerpen B-2030 Belgium

**Supplier General Contact** : (UK) 0800 028 2851  
**e-mail address of person responsible for this SDS** : SDS-DS@exxonmobil.com

**SDS Internet Address** : www.sds.exxonmobil.com

### 1.4 Emergency telephone number

**National advisory body/  
Poison Centre** : (UK) 111

**24 Hour Emergency  
Telephone** : +44 20 3807 3798 / +1-703-527-3887 (CHEMTREC)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

**Classification according to UK CLP/GHS**

Repr. 1B, H360FD

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms**

:



**Signal word** : Danger

**Hazard statements** : H360FD - May damage fertility. May damage the unborn child.

**Precautionary statements**

SECTION 2: Hazards identification

|                                                                                                                                    |                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Prevention                                                                                                                         | : P201 - Obtain special instructions before use.<br>P202 - Do not handle until all safety precautions have been read and understood.<br>P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. |
| Response                                                                                                                           | : P308 + P313 - IF exposed or concerned: Get medical advice or attention.                                                                                                                                                                           |
| Storage                                                                                                                            | : P405 - Store locked up.                                                                                                                                                                                                                           |
| Disposal                                                                                                                           | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.                                                                                                                          |
| Hazardous ingredients                                                                                                              | : zinc alkaryldithiophosphate                                                                                                                                                                                                                       |
| Supplemental label elements                                                                                                        | : Not applicable.                                                                                                                                                                                                                                   |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : 30                                                                                                                                                                                                                                                |
| Special packaging requirements                                                                                                     |                                                                                                                                                                                                                                                     |
| Containers to be fitted with child-resistant fastenings                                                                            | : Not applicable.                                                                                                                                                                                                                                   |
| Tactile warning of danger                                                                                                          | : Not applicable.                                                                                                                                                                                                                                   |
| 2.3 Other hazards                                                                                                                  |                                                                                                                                                                                                                                                     |
| Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII                                  | : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.                                                                                                                                                             |
| Other hazards which do not result in classification                                                                                | : None known.                                                                                                                                                                                                                                       |
| Nota                                                                                                                               | : This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.    |

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

| Product/ingredient name                                | Identifiers                                                                                             | %         | Classification                              | Type    |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------|---------|
| 1-decene, homopolymer hydrogenated                     | UK (GB) REACH #: UK-01-6792707540-7<br>REACH #:<br>01-2119486452-34<br>EC: 500-183-1<br>CAS: 68037-01-4 | ≥10 - ≤25 | Asp. Tox. 1, H304                           | [1] [2] |
| zinc alkaryldithiophosphate                            | UK (GB) REACH #: UK-01-9595296858-4<br>REACH #:<br>01-2119972705-28<br>EC: 234-277-6<br>CAS: 11059-65-7 | ≤3        | Repr. 1B, H360FD<br>Aquatic Chronic 3, H412 | [1]     |
| distillates (petroleum), hydrotreated heavy paraffinic | UK (GB) REACH #: UK-01-1759217276-5<br>REACH #:<br>01-2119484627-25<br>EC: 265-157-1<br>CAS: 64742-54-7 | ≤3        | Asp. Tox. 1, H304                           | [1] [2] |

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

|  |  |  |                                                                             |  |
|--|--|--|-----------------------------------------------------------------------------|--|
|  |  |  | <b>See Section 16 for the full text of the H statements declared above.</b> |  |
|--|--|--|-----------------------------------------------------------------------------|--|

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

Note: Any entry in the EC# column that begins with the number "9" is a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance. See Section 15 for additional CAS number information for the substance.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. Wash clothing before reuse. Clean shoes thoroughly before reuse. Continue to rinse for at least 10 minutes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Get medical attention.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**4.2 Most important symptoms and effects, both acute and delayed**Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.
- Ingestion** : No specific data.

SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

|                     |                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Notes to physician  | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : No specific treatment.                                                                                                    |

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| Suitable extinguishing media   | : Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet.                                          |

5.2 Special hazards arising from the substance or mixture

|                                            |                                                                                                                                       |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Specific hazards arising from the chemical | : In a fire or if heated, a pressure increase will occur and the container may burst. Pressurised mists may form a flammable mixture. |
| Hazardous combustion products              | : Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, sulfur oxides                                             |

5.3 Advice for firefighters

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special protective actions for fire-fighters   | : Use standard firefighting procedures and consider the hazards of other involved materials. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Assure an extended cooling down period to prevent re-ignition. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.                                                                                                                                                                                                                                                                                         |

SECTION 6: Accidental release measures

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

6.1 Personal precautions, protective equipment and emergency procedures

|                             |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. |
| For emergency responders    | : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".                                                                                                                                                                                         |

6.2 Environmental precautions

|                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6.3 Methods and material for containment and cleaning up

|             |                                                                                                                                                                                                                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Small spill | : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 6: Accidental release measures

- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Confine the spill immediately with booms. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. Warn other shipping. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Static Accumulator** : This material is a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100x10E-12 Siemens per meter) and is considered a semiconductive, static accumulator if its conductivity is below 10,000 pS/m. Whether a liquid is nonconductive or semiconductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name                                   | Exposure limit values                                                                                                                 |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| distillates (petroleum), solvent-dewaxed heavy paraffinic | ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined]<br>TWA 8 hours: 5 mg/m³. Form: Inhalable fraction. |
| 1-decene, homopolymer hydrogenated                        | ExxonMobil (COMPANY)<br>TWA 8 hours: 5 mg/m³. Form: Aerosols (thoracic fraction).                                                     |
| distillates (petroleum), hydrotreated heavy paraffinic    | ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined]<br>TWA 8 hours: 5 mg/m³. Form: Inhalable fraction. |
| distillates (petroleum), hydrotreated light paraffinic    | ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined]<br>TWA 8 hours: 5 mg/m³. Form: Inhalable fraction. |

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name                                | Type | Exposure             | Value     | Population         | Effects |
|--------------------------------------------------------|------|----------------------|-----------|--------------------|---------|
| distillates (petroleum), hydrotreated heavy paraffinic | DNEL | Long term Inhalation | 1.2 mg/m³ | General population | Local   |
|                                                        | DNEL | Long term Inhalation | 5.4 mg/m³ | Workers            | Local   |

PNECs

| Product/ingredient name                                | Compartment Detail  | Value               | Method Detail |
|--------------------------------------------------------|---------------------|---------------------|---------------|
| distillates (petroleum), hydrotreated heavy paraffinic | Secondary Poisoning | 9.33 mg / kg (food) | -             |

8.2 Exposure controls

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

SECTION 8: Exposure controls/personal protection

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hand protection                 | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.<br><br>CEN standards EN 420 and EN 374 provide general requirements and lists of glove types. |
| Body protection                 | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Other skin protection           | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Respiratory protection          | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.<br><br>European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.                                                                                                                                                                                                                                                           |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.                                                                                                                                                                                                                                                                                                                                                                             |

Section 9. Physical and chemical properties and safety characteristics

**Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.**  
The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

|                                                          |                                         |
|----------------------------------------------------------|-----------------------------------------|
| <u>Appearance</u>                                        |                                         |
| Physical state                                           | : Liquid.                               |
| Colour                                                   | : Brown                                 |
| Odour                                                    | : Characteristic                        |
| Odour threshold                                          | : Not available.                        |
| pH                                                       | : Not applicable.                       |
| Melting point/freezing point                             | : Not available.                        |
| Boiling point or initial boiling point and boiling range | : >315.56°C (>600°F)                    |
| Flash point                                              | : Open cup: >200°C (>392°F) [ASTM D-92] |
| Evaporation rate                                         | : Not available.                        |
| Flammability                                             | : Ignitable                             |
| Lower and upper explosive (flammable) limits             | : Lower: 0.9%<br>Upper: 7%              |
| Vapour pressure                                          | : <0.1 mm Hg [20 °C]                    |
| Relative vapour density                                  | : >2 [Air = 1]                          |
| Relative density                                         | : 0.882 [ASTM D4052]                    |
| Solubility in water                                      | : Negligible                            |
| Partition coefficient: n-octanol/ water                  | : >3.5                                  |

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Section 9. Physical and chemical properties and safety characteristics

|                                         |                                                                  |
|-----------------------------------------|------------------------------------------------------------------|
| Auto-ignition temperature               | : Not available.                                                 |
| Decomposition temperature               | : Not available.                                                 |
| Viscosity                               | : 14.2 cSt [100 °C] [ASTM D 445]<br>107 cSt [40 °C] [ASTM D 445] |
| <u>Particle characteristics</u>         |                                                                  |
| Median particle size                    | : Not applicable.                                                |
| Pour point                              | : -30°C [ASTM D97]                                               |
| DMSO Extract (mineral oil only), IP-346 | : <3 % by weight                                                 |

SECTION 10: Stability and reactivity

|                                         |                                                                                                        |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------|
| 10.1 Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| 10.2 Chemical stability                 | : The product is stable.                                                                               |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| 10.4 Conditions to avoid                | : High energy sources of ignition. Excessive heat.                                                     |
| 10.5 Incompatible materials             | : Strong oxidisers                                                                                     |
| 10.6 Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 11: Toxicological information

|                                           |                                                                                                                                 |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 11.1 Information on toxicological effects |                                                                                                                                 |
| <u>Acute toxicity</u>                     |                                                                                                                                 |
| Conclusion/Summary                        |                                                                                                                                 |
| Inhalation                                | : Minimally Toxic. No end point data for material. Based on assessment of the components.                                       |
| Dermal                                    | : Minimally Toxic. No end point data for material. Based on assessment of the components.                                       |
| Oral                                      | : Minimally Toxic. No end point data for material. Based on assessment of the components.                                       |
| <u>Acute toxicity estimates</u>           |                                                                                                                                 |
| N/A                                       |                                                                                                                                 |
| <u>Irritation/Corrosion</u>               |                                                                                                                                 |
| Conclusion/Summary                        |                                                                                                                                 |
| Skin                                      | : Negligible irritation to skin at ambient temperatures. No end point data for material. Based on assessment of the components. |
| Eyes                                      | : May cause mild, short-lasting discomfort to eyes. No end point data for material. Based on assessment of the components.      |
| Respiratory                               | : Negligible hazard at ambient/normal handling temperatures. No end point data for material.                                    |
| <u>Respiratory or skin sensitization</u>  |                                                                                                                                 |
| Conclusion/Summary                        |                                                                                                                                 |
| Skin                                      | : Not expected to be a skin sensitizer. No end point data for material. Based on assessment of the components.                  |

**SECTION 11: Toxicological information**

**Respiratory** : Not expected to be a respiratory sensitizer. No end point data for material.

**Mutagenicity**

**Conclusion/Summary** : Not expected to be a germ cell mutagen. No end point data for material. Based on assessment of the components.

**Carcinogenicity**

**Conclusion/Summary** : Not expected to cause cancer. No end point data for material. Based on assessment of the components.

**Reproductive toxicity**

**Conclusion/Summary** : May damage fertility. May damage the unborn child. No end point data for material. Based on assessment of the components.

**Specific target organ toxicity (single exposure)**

Not available.

**Conclusion/Summary** : Not expected to cause organ damage from a single exposure. No end point data for material.

**Specific target organ toxicity (repeated exposure)**

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Not applicable.

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**Conclusion/Summary** : Not expected to cause organ damage from prolonged or repeated exposure. No end point data for material. Based on assessment of the components.

**Aspiration hazard**

Not available.

**Conclusion/Summary** : Not expected to be an aspiration hazard. Based on physico-chemical properties of the material. Data available.

**Information on likely routes of exposure** : Not available.

**Other information**

**Contains** : Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitising in test animals.

**Section 12. Ecological information**

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

**12.1 Toxicity****Conclusion/Summary**

**Acute toxicity** : Not expected to be harmful to aquatic organisms.

**Chronic toxicity** : Not expected to demonstrate chronic toxicity to aquatic organisms

**12.2 Persistence and degradability**

**Biodegradability** : Base oil component -- Expected to be inherently biodegradable

**12.3 Bioaccumulative potential****Conclusion/Summary**

: Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

**12.4 Mobility in soil****Mobility**

: Base oil component -- Expected to partition to sediment and wastewater solids. Low solubility and floats and is expected to migrate from water to the land.

## Section 12. Ecological information

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Other adverse effects

**Other adverse effects** : No known significant effects or critical hazards.

**Nota** :

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

#### Waste catalogue

| Waste code | Waste designation                                               |
|------------|-----------------------------------------------------------------|
| 13 02 05*  | mineral-based non-chlorinated engine, gear and lubricating oils |

NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

**Special precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

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SECTION 14: Transport information

|                                 | ADR/RID        | ADN            | IMDG           | IATA           |
|---------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number                  | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name    | -              | -              | -              | -              |
| 14.3 Transport hazard class(es) | -              | -              | -              | -              |
| 14.4 Packing group              | -              | -              | -              | -              |
| 14.5 Environmental hazards      | No.            | No.            | No.            | No.            |

14.6 Special precautions for user : **Transport within user’s premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

**Annex XVII - Restrictions : 30**  
**on the manufacture,**  
**placing on the market**  
**and use of certain**  
**dangerous substances,**  
**mixtures and articles**

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

**SECTION 15: Regulatory information**

| Product/ingredient name                                   | List name | Name on list                                   | Classification | Notes |
|-----------------------------------------------------------|-----------|------------------------------------------------|----------------|-------|
| distillates (petroleum), solvent-dewaxed heavy paraffinic | ACGIH TLV | Mineral Oil, pure, highly and severely refined | A4             | -     |
| distillates (petroleum), hydrotreated heavy paraffinic    | ACGIH TLV | Mineral Oil, pure, highly and severely refined | A4             | -     |
| distillates (petroleum), hydrotreated light paraffinic    | ACGIH TLV | Mineral Oil, pure, highly and severely refined | A4             | -     |

**EU regulations**

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

**Inventory list**

|                                                           |                                          |
|-----------------------------------------------------------|------------------------------------------|
| <b>Australia inventory (AIC)</b>                          | : All components are listed or exempted. |
| <b>Canada inventory (DSL-NDSL)</b>                        | : All components are listed or exempted. |
| <b>China inventory (IECSC)</b>                            | : All components are listed or exempted. |
| <b>Japan inventory (CSCL)</b>                             | : All components are listed or exempted. |
| <b>Japan inventory (Industrial Safety and Health Act)</b> | : All components are listed or exempted. |
| <b>New Zealand Inventory of Chemicals (NZIoC)</b>         | : All components are listed or exempted. |
| <b>Philippines inventory (PICCS)</b>                      | : All components are listed or exempted. |
| <b>Korea inventory (KECI)</b>                             | : All components are listed or exempted. |
| <b>Taiwan Chemical Substances Inventory (TCSI)</b>        | : All components are listed or exempted. |
| <b>United States inventory (TSCA 8b)</b>                  | : All components are active or exempted. |

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = GB CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- SGG = Segregation Group
- vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification**

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SECTION 16: Other information

| Classification   | Justification      |
|------------------|--------------------|
| Repr. 1B, H360FD | Calculation method |

Full text of abbreviated H statements

|        |                                                    |
|--------|----------------------------------------------------|
| H304   | May be fatal if swallowed and enters airways.      |
| H360FD | May damage fertility. May damage the unborn child. |
| H412   | Harmful to aquatic life with long lasting effects. |

Full text of classifications

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1       | ASPIRATION HAZARD - Category 1                  |
| Repr. 1B          | REPRODUCTIVE TOXICITY - Category 1B             |

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