# SAFETY DATA SHEET

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

### 1.1 Product identifier

**Product name** **Aral MegaTurboral LA 10W-40**

**Product code** 463176-DE01

**SDS #** 463176

**Product type** Liquid.

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

**Use of the substance/ mixture** Engine Oils.
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

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

**Supplier**

Castrol Holdings Europe B.V.,
d'Arcyweg 76, 3198NA
Europoort
Rotterdam

Castrol Germany GmbH,
Überseeallee 1,
20457 Hamburg

+49 (0) 800 863 73 70

**E-mail address** MSDSadvice@bp.com

### 1.4 Emergency telephone number

**EMERGENCY TELEPHONE NUMBER** Carechem: +44 (0) 1235 239 670 (24/7)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**
Not classified.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

### 2.2 Label elements

**Signal word** No signal word.

**Hazard statements** No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** Not applicable.

**Response** Not applicable.

**Storage** Not applicable.

**Disposal** Not applicable.

**Hazardous ingredients** Not applicable.

**Supplemental label elements** Contains 2,5-Furandione, polymer with 1-hexadecene, 2-methyloxirane polymer with oxirane bis (2-aminopropyl) ether and 2-methyl-1-propene, 4-(phenylamino)phenyl imide, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts and Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated. May produce an allergic reaction.
Safety data sheet available on request.

**EU Regulation (EC) No. 1907/2006 (REACH)**

## SECTION 2: Hazards identification

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**: Not applicable.

**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.

**Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.**: This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.

**Other hazards which do not result in classification**: Defatting to the skin.
USED ENGINE OILS
Used engine oil may contain hazardous components which have the potential to cause skin cancer.
See Toxicological Information, section 11 of this Safety Data Sheet.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Product definition**: Mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|---|---|---|---|---|---|
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | REACH #: 01-0000015551-76<br>EC: 406-040-9<br>CAS: 125643-61-0<br>Index: 607-530-00-7 | ≤3 | Aquatic Chronic 4, H413 | - | [1] |
| Distillates (petroleum), hydrotreated heavy paraffinic | REACH #: 01-2119484627-25<br>EC: 265-157-1<br>CAS: 64742-54-7<br>Index: 649-467-00-8 | ≤3 | Asp. Tox. 1, H304 | - | [1] |
| Distillates (petroleum), hydrotreated light paraffinic | REACH #: 01-2119487077-29<br>EC: 265-158-7<br>CAS: 64742-55-8<br>Index: 649-468-00-3 | ≤3 | Asp. Tox. 1, H304 | - | [1] |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | REACH #: 01-2119471299-27<br>EC: 265-169-7<br>CAS: 64742-65-0<br>Index: 649-474-00-6 | ≤3 | Asp. Tox. 1, H304 | - | [1] |
| 2,5-Furandione, polymer with 1-hexadecene, 2-methyloxirane polymer with oxirane bis(2-aminopropyl) ether and 2-methyl-1-propene, 4-(phenylamino)phenyl imide | CAS: 873694-48-5 | ≤3 | Skin Sens. 1, H317 | Skin Sens. 1, H317: C ≥ 2.51% | [1] |
| Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts | EC: 682-816-2<br>CAS: 722503-68-6 | ≤0.3 | Skin Sens. 1B, H317 | - | [1] |
| Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated | EC: 953-650-0<br>CAS: - | ≤0.3 | Skin Sens. 1B, H317<br>Repr. 2, H361d | - | [1] |

## SECTION 3: Composition/information on ingredients

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

Type

[1] Substance classified with a health or environmental hazard

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.

**Skin contact** Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

**Inhalation** If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**Ingestion** Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

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

**Potential acute health effects**

**Inhalation** Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

**Ingestion** No known significant effects or critical hazards.

**Skin contact** Defatting to the skin. May cause skin dryness and irritation.

**Eye contact** See: Section 11. Toxicological information - Potential acute health effects: Eye contact

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Inhalation** Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

**Ingestion** Ingestion of large quantities may cause nausea and diarrhoea.

**Skin contact** Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

**Eye contact** Potential risk of transient stinging or redness if accidental eye contact occurs.

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

**Notes to physician** Treatment should in general be symptomatic and directed to relieving any effects.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

**Unsuitable extinguishing media** Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** Combustion products may include the following:
carbon oxides (CO, $CO_2$) (carbon monoxide, carbon dioxide)

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

**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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 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. Floors may be slippery; use care to avoid falling. Put on appropriate personal protective equipment.

**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. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill**

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. 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. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 5 for firefighting measures.
See Section 8 for information on appropriate personal protective equipment.
See Section 12 for environmental precautions.
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Protective measures**

Put on appropriate personal protective equipment.

**Advice on general occupational hygiene**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep away from heat and direct sunlight. 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. Store and use only in equipment/ containers designed for use with this product. Do not store in unlabelled containers.

**Not suitable**

Prolonged exposure to elevated temperature.

**Germany - Storage code**

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### 7.3 Specific end use(s)

**Recommendations**

See section 1.2 and Exposure scenarios in annex, if applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limits**

No exposure limit value known.

**Recommended monitoring procedures**

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard 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.

**Biological exposure indices**

| Product/ingredient name | Exposure indices |
|---|---|

No exposure indices known.

## SECTION 8: Exposure controls/personal protection

### DNELs/DMELs

| Product/ingredient name | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | **DNEL - Workers - Long term - Inhalation**<br>2.73 mg/m³<br>Effects: Systemic<br><br>**DNEL - Workers - Long term - Inhalation**<br>5.58 mg/m³<br>Effects: Local<br><br>**DNEL - Workers - Long term - Dermal**<br>0.97 mg/m³<br>Effects: Systemic<br><br>**DNEL - General population - Long term - Inhalation**<br>1.19 mg/m³<br>Effects: Local<br><br>**DNEL - General population - Long term - Oral**<br>0.74 mg/m³<br>Effects: Systemic |

### PNECs

| Product/ingredient name | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | **Predator**<br>9.33 mg/kg |

### 8.2 Exposure controls

**Appropriate engineering controls**

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.
All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.
Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.
The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

**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. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.
The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

**Eye/face protection**

Safety glasses with side shields.

**Skin protection**

**Hand protection**

**General Information:**

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Recommended: Nitrile gloves.
**Breakthrough time:**

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It

## SECTION 8: Exposure controls/personal protection

is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type.
Our recommendations on the selection of gloves are as follows:

Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.
If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Recommended breakthrough times as above.
It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

**Glove Thickness:**

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

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.

**Skin and body**

Use of protective clothing is good industrial practice.
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.
Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

**Refer to standards:**

Respiratory protection: EN 529
Gloves: EN 420, EN 374
Eye protection: EN 166
Filtering half-mask: EN 149
Filtering half-mask with valve: EN 405
Half-mask: EN 140 plus filter
Full-face mask: EN 136 plus filter
Particulate filters: EN 143
Gas/combined filters: EN 14387

**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

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

**Physical state** Liquid.

**Colour** Amber. [Dark]

**Odour** Not available.

**Odour threshold** Not available.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flammability** Not available.

**Lower and upper explosion limit** Not available.

**Flash point** Closed cup: 202°C (395.6°F) [Pensky-Martens ASTM D 93]
Open cup: 233°C (451.4°F) [Cleveland ASTM D 92]

**Auto-ignition temperature**

| Ingredient name | °C | °F | Method |
|---|---|---|---|
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | 365 | 689 | |

**Decomposition temperature** Not available.

**pH** Not applicable.

**Kinematic viscosity** Kinematic: 100.9 $mm^2/s$ (100.9 cSt) at 40°C
Kinematic: 14.2 to 15.2 $mm^2/s$ (14.2 to 15.2 cSt) at 100°C

**Solubility**

| Media | Result |
|---|---|
| water | Not soluble |

**Partition coefficient n-octanol/ water (log value)** Not applicable.

**Vapour pressure**

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|---|---|---|---|---|---|---|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| Distillates (petroleum), hydrotreated heavy paraffinic | <0.07501 | <0.01 | ASTM D 5191 | | | |
| Distillates (petroleum), hydrotreated light paraffinic | <0.07501 | <0.01 | ASTM D 5191 | | | |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | <0.07501 | <0.01 | ASTM D 5191 | | | |
| Distillates (petroleum), hydrotreated heavy paraffinic | <0.07501 | <0.01 | ASTM D 5191 | | | |
| Distillates (petroleum), hydrotreated light paraffinic | <0.07501 | <0.01 | ASTM D 5191 | | | |

**Density and/or Relative density** <1000 kg/m³ (<1 g/cm³) at 15°C

**Relative vapour density** Not available.

**Particle characteristics**

**Median particle size** Not applicable.

### 9.2 Other information

**Evaporation rate** Not available.

**Explosive properties** Not available.

**Oxidising properties** Not available.

**Pour point** -36 °C

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

**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.
Under normal conditions of storage and use, hazardous polymerisation will not occur.

**10.4 Conditions to avoid**

Avoid all possible sources of ignition (spark or flame).

**10.5 Incompatible materials**

Reactive or incompatible with the following materials: oxidising materials.

**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 hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity**

| Product/ingredient name | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | **Rat - Oral - LD50**<br>>5000 mg/kg<br>OECD 401<br>Based on studies with similar substances.<br><br>**Rabbit - Dermal - LD50**<br>>5000 mg/kg<br>OECD 402<br>Based on studies with similar substances.<br><br>**Rat - Inhalation - LC50 Dusts and mists**<br>>5 mg/l [4 hours]<br>OECD 403<br>Based on studies with similar substances. |
| Distillates (petroleum), hydrotreated light paraffinic | **Rat - Oral - LD50**<br>>5000 mg/kg<br>OECD 401<br>Based on studies with similar substances.<br><br>**Rabbit - Dermal - LD50**<br>>5000 mg/kg<br>OECD 402<br>Based on studies with similar substances.<br><br>**Rat - Inhalation - LC50 Dusts and mists**<br>>5.53 mg/l [4 hours]<br>OECD 403<br>Based on studies with similar substances. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | **Rat - Oral - LD50**<br>>5000 mg/kg<br>OECD 401<br>Based on studies with similar substances.<br><br>**Rat - Dermal - LD50**<br>>2000 mg/kg<br>OECD 402<br>Based on studies with similar substances.<br><br>**Rat - Inhalation - LC50 Dusts and mists**<br>>5.53 mg/l [4 hours]<br>OECD 403 |

**Acute toxicity estimates**

N/A

## SECTION 11: Toxicological information

### Skin corrosion/irritation

| Product/ingredient name | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | **Rabbit - Skin - Mild irritant**<br>OECD 404<br>Based on studies with similar substances. |
| Distillates (petroleum), hydrotreated light paraffinic | **Rabbit - Skin - Non-irritant to skin.**<br>Based on studies with similar substances. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | **Rabbit - Skin - Non-irritant to skin.**<br>Based on studies with similar substances. |

### Serious eye damage/eye irritation

| Product/ingredient name | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | **Rabbit - Eyes - Non-irritating to the eyes.**<br>OECD 405<br>Based on studies with similar substances. |
| Distillates (petroleum), hydrotreated light paraffinic | **Rabbit - Eyes - Non-irritating to the eyes.**<br>OECD 405<br>Based on studies with similar substances. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | **Rabbit - Eyes - Non-irritating to the eyes.**<br>OECD 405<br>Based on studies with similar substances. |

### Respiratory corrosion/irritation

Not available.

### Respiratory or skin sensitization

| Product/ingredient name | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | **Guinea pig - skin**<br>OECD 406<br>Result: Not sensitising<br>Based on studies with similar substances. |
| Distillates (petroleum), hydrotreated light paraffinic | **Guinea pig - skin**<br>OECD 406<br>Result: Not sensitising<br>Based on studies with similar substances. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | **Guinea pig - skin**<br>OECD 406<br>Result: Not sensitising<br>Based on studies with similar substances. |

### Germ cell mutagenicity

| Product/ingredient name | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | **In vitro - Bacteria**<br>Bacterial Reverse Mutation Test<br>Result: Negative<br>Based on studies with similar substances.<br><br>**In vitro - Mammal - species unspecified**<br>In vitro Mammalian Chromosomal Aberration Test<br>Result: Negative<br>Based on studies with similar substances.<br><br>**In vivo - Mammal - species unspecified**<br>Mammalian Erythrocyte Micronucleus Test<br>Result: Negative |

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| | |
|---|---|
| | Based on studies with similar substances.<br><br>**In vitro - Mammal - species unspecified**<br>In vitro Mammalian Cell Gene Mutation Test<br>Result: Negative<br>Based on studies with similar substances. |
| Distillates (petroleum), hydrotreated light paraffinic | **In vitro - Bacteria**<br>OECD [Bacterial Reverse Mutation Test]<br>Result: Negative<br>Based on studies with similar substances.<br><br>**In vitro - Mammal - species unspecified**<br>OECD [In vitro Mammalian Chromosomal Aberration Test]<br>Result: Negative<br>Based on studies with similar substances. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | **In vitro - Bacteria**<br>OECD [Bacterial Reverse Mutation Test]<br>Result: Negative<br>Based on studies with similar substances.<br><br>**In vitro - Mammal - species unspecified**<br>OECD [In vitro Mammalian Chromosomal Aberration Test]<br>Result: Negative<br>Based on studies with similar substances. |

### Carcinogenicity

| Product/ingredient name | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | **Mouse - Dermal - Unspecified**<br>OECD 451<br>Result: Negative<br>Based on studies with similar substances. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | **Mouse - Dermal - Unspecified**<br>OECD 451<br>Result: Negative<br>Based on studies with similar substances. |

### Reproductive toxicity

| Product/ingredient name | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | **Rat - Oral**<br>OECD 421<br>Maternal toxicity: Negative<br>Fertility effects: Negative<br>Developmental: Negative<br>Based on studies with similar substances. |
| Distillates (petroleum), hydrotreated light paraffinic | **Rat - Oral**<br>OECD 421<br>Maternal toxicity: Negative<br>Fertility effects: Negative<br>Developmental: Negative<br>Based on studies with similar substances. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | **Rat - Oral**<br>OECD 421<br>Maternal toxicity: Negative<br>Fertility effects: Negative<br>Developmental: Negative<br>Based on studies with similar substances. |

### Specific target organ toxicity (single exposure)

Not available.

## SECTION 11: Toxicological information

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

| Product/ingredient name | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated light paraffinic | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | ASPIRATION HAZARD - Category 1 |

**Information on likely routes of exposure** Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

**Inhalation** Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

**Ingestion** No known significant effects or critical hazards.

**Skin contact** Defatting to the skin. May cause skin dryness and irritation.

**Eye contact** No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** No specific data.

**Ingestion** No specific data.

**Skin contact** Adverse symptoms may include the following:
irritation
dryness
cracking

**Eye contact** No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Inhalation** Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

**Ingestion** Ingestion of large quantities may cause nausea and diarrhoea.

**Skin contact** Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

**Eye contact** Potential risk of transient stinging or redness if accidental eye contact occurs.

**General** USED ENGINE OILS
Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.

**Carcinogenicity** No known significant effects or critical hazards.

**Mutagenicity** No known significant effects or critical hazards.

**Developmental effects** No known significant effects or critical hazards.

**Fertility effects** No known significant effects or critical hazards.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

**Conclusion/Summary [Product]** This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | **Acute - EL50**<br>OECD 201<br>Algae<br>>100 mg/l [72 hours]<br>Based on studies with similar substances.<br><br>**Acute - EL50**<br>OECD 202<br>Daphnia |

## SECTION 12: Ecological information

| | |
|---|---|
| | >10000 mg/l [48 hours]<br>Based on studies with similar substances.<br><br>**Acute - LL50**<br>OECD 203<br>Fish<br>>100 mg/l [96 hours]<br>Based on studies with similar substances.<br><br>**Chronic - NOEL**<br>OECD 201<br>Algae<br>≥100 mg/l [72 hours]<br>Based on data available for this or related materials.<br><br>**Chronic - NOEL**<br>OECD 211<br>Daphnia<br>10 mg/l [21 days]<br>Based on studies with similar substances. |
| Distillates (petroleum), hydrotreated light paraffinic | **Acute - EL50**<br>OECD 201<br>Algae<br>>100 mg/l [72 hours]<br>Based on studies with similar substances.<br><br>**Acute - EL50**<br>OECD 202<br>Daphnia<br>>10000 mg/l [48 hours]<br>Based on studies with similar substances.<br><br>**Acute - LL50**<br>OECD 203<br>Fish<br>>100 mg/l [96 hours]<br>Based on studies with similar substances.<br><br>**Chronic - NOEL**<br>OECD 201<br>Algae<br>≥100 mg/l [72 hours]<br>Based on studies with similar substances.<br><br>**Chronic - NOEL**<br>OECD 211<br>Daphnia<br>10 mg/l [21 days]<br>Based on studies with similar substances. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | **Acute - EL50**<br>OECD 201<br>Algae<br>>100 mg/l [72 hours]<br>Based on studies with similar substances.<br><br>**Acute - EL50**<br>OECD 202<br>Daphnia<br>>10000 mg/l [48 hours]<br>Based on studies with similar substances.<br><br>**Acute - LL50**<br>OECD 203<br>Fish<br>>100 mg/l [96 hours]<br>Based on studies with similar substances.<br><br>**Chronic - NOEL**<br>OECD 201<br>Algae |

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≥100 mg/l [72 hours]
Based on studies with similar substances.

**Chronic - NOEL**
OECD 211
Daphnia
10 mg/l [21 days]
Based on studies with similar substances.

**Environmental hazards** Not classified as dangerous

### 12.2 Persistence and degradability

Expected to be biodegradable.

| Product/ingredient name | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | OECD 301F<br>31% [28 days] - Not readily<br>Based on studies with similar substances. |
| Distillates (petroleum), hydrotreated light paraffinic | OECD 301F<br>31% [28 days] - Not readily<br>Based on studies with similar substances. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | OECD 301F<br>31% [28 days] - Not readily<br>Based on studies with similar substances. |

### 12.3 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate | 9.2 | - | High |

### 12.4 Mobility in soil

**Soil/water partition coefficient**

Not available.

**Results of PMT and vPvM assessment**

| Product/ingredient name | PMT | P | M | T | vPvM | vP | vM |
|---|---|---|---|---|---|---|---|
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate | No | No | No | No | No | No | No |
| Distillates (petroleum), hydrotreated heavy paraffinic | No | No | No | No | No | No | No |
| Distillates (petroleum), hydrotreated light paraffinic | No | No | No | No | No | No | No |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | No | No | No | No | No | No | No |
| 2,5-Furandione, polymer with 1-hexadecene, 2-methyloxirane polymer with oxirane bis (2-aminopropyl) ether and 2-methyl-1-propene, 4-(phenylamino)phenyl imide | No | No | No | No | No | No | No |
| Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts | No | No | No | No | No | No | No |
| Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated | No | No | No | No | No | No | No |

**Mobility** Spillages may penetrate the soil causing ground water contamination.

**Conclusion/Summary** The product does not meet the criteria to be considered as a PMT or vPvM.

## SECTION 12: Ecological information

### 12.5 Results of PBT and vPvB assessment

**Regulation (EC) No. 1907/2006 [REACH]**

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|---|---|---|---|---|---|---|---|
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate | No | N/A | N/A | No | N/A | N/A | N/A |
| Distillates (petroleum), hydrotreated heavy paraffinic | No | N/A | N/A | No | N/A | N/A | N/A |
| Distillates (petroleum), hydrotreated light paraffinic | No | N/A | N/A | No | N/A | N/A | N/A |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | No | N/A | N/A | No | N/A | N/A | N/A |
| 2,5-Furandione, polymer with 1-hexadecene, 2-methyloxirane polymer with oxirane bis (2-aminopropyl) ether and 2-methyl-1-propene, 4-(phenylamino)phenyl imide | No | N/A | N/A | No | N/A | N/A | N/A |
| Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts | No | N/A | N/A | No | N/A | N/A | N/A |
| Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated | N/A | N/A | N/A | Yes | N/A | N/A | N/A |

**Regulation (EC) No. 1272/2008 [CLP]**

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|---|---|---|---|---|---|---|---|
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate | No | No | No | No | No | No | No |
| Distillates (petroleum), hydrotreated heavy paraffinic | No | No | No | No | No | No | No |
| Distillates (petroleum), hydrotreated light paraffinic | No | No | No | No | No | No | No |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | No | No | No | No | No | No | No |
| 2,5-Furandione, polymer with 1-hexadecene, 2-methyloxirane polymer with oxirane bis (2-aminopropyl) ether and 2-methyl-1-propene, 4-(phenylamino)phenyl imide | No | No | No | No | No | No | No |
| Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts | No | No | No | No | No | No | No |
| Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated | No | No | No | No | No | No | No |

**Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP]** The product does not meet the criteria to be considered as a PBT or vPvB.

### 12.6 Endocrine disrupting properties

**Conclusion/Summary [Product]** This substance/mixture does not contain any components that are considered to have endocrine disrupting properties.

**Other ecological information** Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product**

**Methods of disposal** Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

**Hazardous waste** Yes.

**European waste catalogue (EWC)**

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

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

**Packaging**

**Methods of disposal** Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

**Special precautions** This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**References** Commission 2014/955/EU
Directive 2008/98/EC

## SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---|---|---|---|---|
| **14.1 UN number or ID 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. |
| **Additional information** | - | - | - | - |

**14.6 Special precautions for user** Not available.

**14.7 Maritime transport in bulk according to IMO instruments** Not available.

## SECTION 15: Regulatory information

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

**EU Regulation (EC) No. 1907/2006 (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.

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

No listed substance

**Labelling** Not applicable.

## SECTION 15: Regulatory information

### Other regulations

| | |
|---|---|
| **REACH Status** | The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH. |
| **United States inventory (TSCA 8b)** | All components are active or exempted. |
| **Australia inventory (AIIC)** | All components are listed or exempted. |
| **Canada inventory** | All components are listed or exempted. |
| **China inventory (IECSC)** | At least one component is not listed. |
| **Japan inventory (CSCL)** | At least one component is not listed. |
| **Korea inventory (KECI)** | At least one component is not listed. |
| **Philippines inventory (PICCS)** | At least one component is not listed. |
| **Taiwan Chemical Substances Inventory (TCSI)** | At least one component is not listed. |
| **Explosive precursors** | Not applicable. |

### Ozone depleting substances (EU 2024/590)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### Persistent Organic Pollutants

Not listed.

### EU - Water framework directive - Priority substances

None of the components are listed.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### National regulations

#### Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

| | |
|---|---|
| **Hazard class for water** | 2 (classified according AwSV) |
| **Prohibited Chemicals Regulation (ChemVerbotsV)** | When placed on the market in Germany, this product is not subject to the Prohibited Chemicals Regulation (ChemVerbotsV). |
| **Occupational restrictions** | Observe employment restrictions in the following:<br>Gesetz zum Schutz der arbeitenden Jugend (Jugendarbeitsschutzgesetz – JArbSchG)<br>Gesetz zum Schutz von Müttern bei der Arbeit, in der Ausbildung und im Studium (Mutterschutzgesetz – MuSchG) |

| | |
|---|---|
| **15.2 Chemical safety assessment** | A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself. |

## SECTION 16: Other information

**Abbreviations and acronyms**

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association

## SECTION 16: Other information

IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SADT = Self-Accelerating Decomposition Temperature
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVCB = Complex hydrocarbon substance
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative
Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN 01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN 01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN 01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN 01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN 01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8, 64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 / RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN 01-2119474889-13

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification | Justification |
|---|---|
| Not classified. | |

**Full text of abbreviated H statements**

| | |
|---|---|
| H304 | May be fatal if swallowed and enters airways. |
| H317 | May cause an allergic skin reaction. |
| H361d | Suspected of damaging the unborn child. |
| H413 | May cause long lasting harmful effects to aquatic life. |

**Full text of classifications [CLP/GHS]**

| | |
|---|---|
| Aquatic Chronic 4 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1B | SKIN SENSITISATION - Category 1B |

**History**

| | |
|---|---|
| **Date of issue/ Date of revision** | 07/04/2026. |
| **Date of previous issue** | 10/02/2026. |
| **Prepared by** | Product Stewardship |

**Indicates information that has changed from previously issued version.**

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