

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

|              |                      |
|--------------|----------------------|
| Product name | Castrol EDGE 0W-40 R |
| Product code | 470106-DE01          |
| SDS #        | 470106               |
| Product type | Liquid.              |

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

|                                  |                                                                                                                             |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Use of the substance/<br>mixture | Engine oils.<br>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.,<br>d'Arcyweg 76, 3198NA<br>Europoort<br>Rotterdam<br><br>CASTROL ESPAÑA, S.L.U.<br>Calle Quintanadueñas, 6<br>Edificio Arqboarea<br>28050 Las Tablas, Madrid<br><br>+34 902 400 702 |
| E-mail address | MSDSadvice@bp.com                                                                                                                                                                                                 |

**1.4 Emergency telephone number**

|                               |                                       |
|-------------------------------|---------------------------------------|
| EMERGENCY<br>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.                                                             |
| <b><u>Precautionary statements</u></b>                 |                                                                                                               |
| Prevention                                             | Not applicable.                                                                                               |
| Response                                               | Not applicable.                                                                                               |
| Storage                                                | Not applicable.                                                                                               |
| Disposal                                               | Not applicable.                                                                                               |
| Hazardous ingredients                                  | Not applicable.                                                                                               |
| Supplemental label<br>elements                         | Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.<br>Safety data sheet available on request. |
| <b><u>EU Regulation (EC) No. 1907/2006 (REACH)</u></b> |                                                                                                               |

|                        |                      |               |              |         |       |          |         |
|------------------------|----------------------|---------------|--------------|---------|-------|----------|---------|
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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                                                                                                                  |                                                                                                                                                                                                                       |
| Results of PBT and vPvB assessment                                                                                                 | Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.                                                                                                            |
| 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                                                                                | Defatting to the skin.<br>USED ENGINE OILS<br>Used engine oil may contain hazardous components which have the potential to cause skin cancer.<br>See Toxicological Information, section 11 of this Safety Data Sheet. |

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product definition Mixture  
Synthetic base stock. Proprietary performance additives.

| Product/ingredient name                                   | Identifiers                                                                          | %         | Classification                         | Specific Conc. Limits, M-factors and ATEs | Type |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------|-----------|----------------------------------------|-------------------------------------------|------|
| 1-Decene, homopolymer, hydrogenated                       | REACH #: 01-2119486452-34<br>EC: 500-183-1<br>CAS: 68037-01-4                        | ≥10 - ≤25 | Asp. Tox. 1, H304                      | -                                         | [1]  |
| Dec-1-ene, trimers, hydrogenated                          | REACH #: 01-2119486452-34<br>EC: 500-393-3<br>CAS: 157707-86-3                       | ≥10 - ≤25 | Asp. Tox. 1, H304                      | -                                         | [1]  |
| Dec-1-ene, trimers, hydrogenated                          | REACH #: 01-2119493949-12<br>EC: 500-393-3<br>CAS: 157707-86-3                       | ≥10 - ≤25 | Asp. Tox. 1, H304                      | -                                         | [1]  |
| Distillates (petroleum), solvent-refined heavy paraffinic | REACH #: 01-2119488706-23<br>EC: 265-090-8<br>CAS: 64741-88-4<br>Index: 649-454-00-7 | ≤3        | Not classified.                        | -                                         | [2]  |
| 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        | Not classified.                        | -                                         | [2]  |
| bis(nonylphenyl)amine                                     | REACH #: 01-2119488911-28<br>EC: 253-249-4<br>CAS: 36878-20-3                        | ≤3        | Aquatic Chronic 4, H413                | -                                         | [1]  |
| C14-16-18 Alkyl phenol                                    | REACH #: 01-2119498288-19                                                            | <1        | Skin Sens. 1B, H317<br>STOT RE 2, H373 | -                                         | [1]  |

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

Type  
[1] Substance classified with a health or environmental hazard  
[2] Substance with a workplace exposure limit  
Occupational exposure limits, if available, are listed in Section 8.

|                        |                      |               |              |          |         |
|------------------------|----------------------|---------------|--------------|----------|---------|
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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                                   |                                                                                                                                                                                                                                               |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>                | 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.             |
| <b>Skin contact</b>               | 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.              |
| <b>Inhalation</b>                 | If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur. |
| <b>Ingestion</b>                  | Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.                                                                                                                                |
| <b>Protection of first-aiders</b> | 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

|                     |                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
| <b>Ingestion</b>    | No known significant effects or critical hazards.                                                                |
| <b>Skin contact</b> | Defatting to the skin. May cause skin dryness and irritation.                                                    |
| <b>Eye contact</b>  | No known significant effects or critical hazards.                                                                |

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

|                     |                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. |
| <b>Ingestion</b>    | Ingestion of large quantities may cause nausea and diarrhoea.                                                  |
| <b>Skin contact</b> | Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.                     |
| <b>Eye contact</b>  | Potential risk of transient stinging or redness if accidental eye contact occurs.                              |

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

|                           |                                                                                                                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes to physician</b> | Treatment should in general be symptomatic and directed to relieving any effects.<br>In case of inhalation of decomposition products in a fire, symptoms may be delayed.<br>The exposed person may need to be kept under medical surveillance for 48 hours. |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                       |                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.                            |
| <b>Unsuitable extinguishing media</b> | 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

|                                              |                                                                                                                                                                        |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazards from the substance or mixture</b> | In a fire or if heated, a pressure increase will occur and the container may burst.                                                                                    |
| <b>Hazardous combustion products</b>         | Combustion products may include the following:<br>carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)<br>nitrogen oxides (NO, NO <sub>2</sub> etc.) |

### 5.3 Advice for firefighters

|                                                       |                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Special precautions for fire-fighters</b>          | 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.                                                                                                                                                             |
| <b>Special protective equipment for fire-fighters</b> | 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

**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**

| Product/ingredient name                                   | Exposure limit values                                                                                                                                                                                                                             |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Distillates (petroleum), solvent-refined heavy paraffinic | <b>National institute of occupational safety and health (Spain). [aceite mineral refinado]</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 1/2008 Form: Mist<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 1/2008 Form: Mist |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | <b>National institute of occupational safety and health (Spain). [aceite mineral refinado]</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 1/2008 Form: Mist<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 1/2008 Form: Mist |

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

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**SECTION 8: Exposure controls/personal protection****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.

**Derived No Effect Level**

No DNELs/DMELs available.

**Predicted No Effect Concentration**

No PNECs available

**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 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.

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**SECTION 8: Exposure controls/personal protection**

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**

|                                                |                |
|------------------------------------------------|----------------|
| <b>Physical state</b>                          | Liquid.        |
| <b>Colour</b>                                  | Amber.         |
| <b>Odour</b>                                   | Not available. |
| <b>Odour threshold</b>                         | Not available. |
| <b>Melting point/freezing point</b>            | Not available. |
| <b>Initial boiling point and boiling range</b> | Not available. |

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SECTION 9: Physical and chemical properties

| Flammability                                                                                                        | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                         |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------|-------------------------|-------------|---------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------|-------------------------------------|------------|----------------|-------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------|-------------|-------------------------------------------------------------------------|------------|----------------|-------------|-------------------------------------------------------------------------|------------|----------------|----------------|--|--|--|-----------------------------------------------------------|----------|-------|-------------|--|--|--|-----------------------------------------------------------|----------|-------|-------------|--|--|--|-----------------------|-------|---------|--------|--------|---------|--------|
| Lower and upper explosion limit                                                                                     | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                         |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Flash point                                                                                                         | <div><div><div></div></div><div>Closed cup: 214°C (417.2°F) [Pensky-Martens ASTM D 93]<br/>Open cup: 239°C (462.2°F) [Cleveland DIN EN ISO 2592]</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                         |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Auto-ignition temperature                                                                                           | <table><tr><th>Ingredient name</th><th>°C</th><th>°F</th><th>Method</th></tr><tr><td><div><div><div></div></div><div>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</div></div></td><td>343 to 369</td><td>649.4 to 696.2</td><td>ASTM D 2159</td></tr><tr><td>1-Decene, homopolymer, hydrogenated</td><td>343 to 369</td><td>649.4 to 696.2</td><td>ASTM D 2159</td></tr><tr><td>Dec-1-ene, homopolymer, hydrogenated</td><td>343 to 369</td><td>649.4 to 696.2</td><td>ASTM D 2159</td></tr><tr><td>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</td><td>343 to 369</td><td>649.4 to 696.2</td><td>ASTM D 2159</td></tr><tr><td>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</td><td>343 to 369</td><td>649.4 to 696.2</td><td>ASTM D 2159</td></tr></table>                                                                                                                                                                                                                                                     | Ingredient name | °C                      | °F                      | Method      | <div><div><div></div></div><div>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</div></div> | 343 to 369 | 649.4 to 696.2 | ASTM D 2159 | 1-Decene, homopolymer, hydrogenated | 343 to 369 | 649.4 to 696.2 | ASTM D 2159 | Dec-1-ene, homopolymer, hydrogenated | 343 to 369                                                                                                          | 649.4 to 696.2 | ASTM D 2159 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | 343 to 369 | 649.4 to 696.2 | ASTM D 2159 | Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | 343 to 369 | 649.4 to 696.2 | ASTM D 2159    |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Ingredient name                                                                                                     | °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | °F              | Method                  |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| <div><div><div></div></div><div>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</div></div> | 343 to 369                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 649.4 to 696.2  | ASTM D 2159             |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| 1-Decene, homopolymer, hydrogenated                                                                                 | 343 to 369                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 649.4 to 696.2  | ASTM D 2159             |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Dec-1-ene, homopolymer, hydrogenated                                                                                | 343 to 369                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 649.4 to 696.2  | ASTM D 2159             |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated                                             | 343 to 369                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 649.4 to 696.2  | ASTM D 2159             |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated                                             | 343 to 369                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 649.4 to 696.2  | ASTM D 2159             |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Decomposition temperature                                                                                           | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                         |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| pH                                                                                                                  | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                         |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Kinematic viscosity                                                                                                 | Kinematic: 95.28 mm²/s (95.28 cSt) at 40°C<br>Kinematic: 14.57 to 16.2 mm²/s (14.57 to 16.2 cSt) at 100°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                         |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Solubility                                                                                                          | <table><tr><th>Media</th><th>Result</th></tr><tr><td>water</td><td>Not soluble</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Media           | Result                  | water                   | Not soluble |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Media                                                                                                               | Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                         |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| water                                                                                                               | Not soluble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                         |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Partition coefficient n-octanol/ water (log value)                                                                  | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                         |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Vapour pressure                                                                                                     | <table><tr><th rowspan="2">Ingredient name</th><th colspan="3">Vapour Pressure at 20°C</th><th colspan="3">Vapour pressure at 50°C</th></tr><tr><th>mm Hg</th><th>kPa</th><th>Method</th><th>mm Hg</th><th>kPa</th><th>Method</th></tr><tr><td><div><div><div></div></div><div>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</div></div></td><td>&lt;0.0041</td><td>&lt;0.00055</td><td>ASTM E 1194-87</td><td></td><td></td><td></td></tr><tr><td>1-Decene, homopolymer, hydrogenated</td><td>&lt;0.0041</td><td>&lt;0.00055</td><td>ASTM E 1194-87</td><td></td><td></td><td></td></tr><tr><td>Distillates (petroleum), solvent-refined heavy paraffinic</td><td>&lt;0.07501</td><td>&lt;0.01</td><td>ASTM D 5191</td><td></td><td></td><td></td></tr><tr><td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td><td>&lt;0.07501</td><td>&lt;0.01</td><td>ASTM D 5191</td><td></td><td></td><td></td></tr><tr><td>bis(nonylphenyl)amine</td><td>&lt;0.01</td><td>&lt;0.0013</td><td>EU A.4</td><td>0.0019</td><td>0.00025</td><td>EU A.4</td></tr></table> | Ingredient name | Vapour Pressure at 20°C |                         |             | Vapour pressure at 50°C                                                                                             |            |                | mm Hg       | kPa                                 | Method     | mm Hg          | kPa         | Method                               | <div><div><div></div></div><div>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</div></div> | <0.0041        | <0.00055    | ASTM E 1194-87                                                          |            |                |             | 1-Decene, homopolymer, hydrogenated                                     | <0.0041    | <0.00055       | ASTM E 1194-87 |  |  |  | Distillates (petroleum), solvent-refined heavy paraffinic | <0.07501 | <0.01 | ASTM D 5191 |  |  |  | Distillates (petroleum), solvent-dewaxed heavy paraffinic | <0.07501 | <0.01 | ASTM D 5191 |  |  |  | bis(nonylphenyl)amine | <0.01 | <0.0013 | EU A.4 | 0.0019 | 0.00025 | EU A.4 |
| Ingredient name                                                                                                     | Vapour Pressure at 20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                         | Vapour pressure at 50°C |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
|                                                                                                                     | mm Hg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | kPa             | Method                  | mm Hg                   | kPa         | Method                                                                                                              |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| <div><div><div></div></div><div>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</div></div> | <0.0041                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0.00055        | ASTM E 1194-87          |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| 1-Decene, homopolymer, hydrogenated                                                                                 | <0.0041                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0.00055        | ASTM E 1194-87          |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Distillates (petroleum), solvent-refined heavy paraffinic                                                           | <0.07501                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.01           | ASTM D 5191             |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic                                                           | <0.07501                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.01           | ASTM D 5191             |                         |             |                                                                                                                     |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| bis(nonylphenyl)amine                                                                                               | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <0.0013         | EU A.4                  | 0.0019                  | 0.00025     | EU A.4                                                                                                              |            |                |             |                                     |            |                |             |                                      |                                                                                                                     |                |             |                                                                         |            |                |             |                                                                         |            |                |                |  |  |  |                                                           |          |       |             |  |  |  |                                                           |          |       |             |  |  |  |                       |       |         |        |        |         |        |
| 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                                                                                                          | -57 °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.<br>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 / Route                  | Test authority / Number | Species | Dose        | Exposure | Remarks                                   |
|-------------------------------------------------------------------------|---------------------------------|-------------------------|---------|-------------|----------|-------------------------------------------|
| 1-Decene, homopolymer, hydrogenated                                     | LD50 Dermal                     | OECD 402                | Rat     | >2000 mg/kg | -        | Based on studies with similar substances. |
|                                                                         | LD50 Oral                       | OECD 423                | Rat     | >5000 mg/kg | -        | Based on studies with similar substances. |
|                                                                         | LD50 Inhalation Dusts and mists | OECD 403                | Rat     | >5.2 mg/l   | 4 hours  | -                                         |
| Dec-1-ene, homopolymer, hydrogenated                                    | LD50 Dermal                     | OECD 402                | Rat     | >2000 mg/kg | -        | Based on studies with similar substances. |
|                                                                         | LD50 Oral                       | OECD 423                | Rat     | >5000 mg/kg | -        | Based on studies with similar substances. |
|                                                                         | LD50 Inhalation Dusts and mists | OECD 403                | Rat     | >5.2 mg/l   | 4 hours  | -                                         |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | LD50 Dermal                     | OECD 402                | Rat     | >2000 mg/kg | -        | Based on studies with similar substances. |
|                                                                         | LD50 Oral                       | OECD 423                | Rat     | >5000 mg/kg | -        | Based on studies with similar substances. |
|                                                                         | LD50 Inhalation Dusts and mists | OECD 403                | Rat     | >5.2 mg/l   | 4 hours  | -                                         |
| bis(nonylphenyl)amine                                                   | LD50 Dermal                     | OECD 402                | Rabbit  | >2000 mg/kg | -        | Based on studies with                     |

**SECTION 11: Toxicological information**

|           |      |     |     |             |   |                                                                  |
|-----------|------|-----|-----|-------------|---|------------------------------------------------------------------|
| LD50 Oral | OECD | 401 | Rat | >5000 mg/kg | - | similar substances.<br>Based on studies with similar substances. |
|-----------|------|-----|-----|-------------|---|------------------------------------------------------------------|

**Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Long chain alkyl phenol | 2500         | N/A            | N/A                      | N/A                         | N/A                                 |

**Irritation/Corrosion**

| Product/ingredient name                                                 | Test authority / Test number | Species | Route / Result                     | Test concentration | Remarks                                   |
|-------------------------------------------------------------------------|------------------------------|---------|------------------------------------|--------------------|-------------------------------------------|
| 1-Decene, homopolymer, hydrogenated                                     | OECD 405                     | Rabbit  | Eyes - Non-irritating to the eyes. | -                  | -                                         |
|                                                                         | OECD 404                     | Rabbit  | Skin - Non-irritant to skin.       | -                  | -                                         |
| Dec-1-ene, homopolymer, hydrogenated                                    | OECD 405                     | Rabbit  | Eyes - Non-irritating to the eyes. | -                  | -                                         |
|                                                                         | OECD 404                     | Rabbit  | Skin - Non-irritant to skin.       | -                  | -                                         |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | OECD 405                     | Rabbit  | Eyes - Non-irritating to the eyes. | -                  | Based on studies with similar substances. |
|                                                                         | OECD 404                     | Rabbit  | Skin - Non-irritant to skin.       | -                  | -                                         |
| bis(nonylphenyl)amine                                                   | OECD 405                     | Rabbit  | Eyes - Non-irritating to the eyes. | -                  | Based on studies with similar substances. |
|                                                                         | OECD 404                     | Rabbit  | Skin - Mild irritant               | -                  | Based on studies with similar substances. |

**Sensitiser**

| Product/ingredient name                                                 | Route | Test authority / Test number | Species    | Result          | Remarks                                   |
|-------------------------------------------------------------------------|-------|------------------------------|------------|-----------------|-------------------------------------------|
| 1-Decene, homopolymer, hydrogenated                                     | skin  | OECD 406                     | Guinea pig | Not sensitising | -                                         |
| Dec-1-ene, homopolymer, hydrogenated                                    | skin  | OECD 406                     | Guinea pig | Not sensitising | -                                         |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | skin  | OECD 406                     | Guinea pig | Not sensitising | -                                         |
| bis(nonylphenyl)amine                                                   | skin  | OECD 406                     | Guinea pig | Not sensitising | Based on studies with similar substances. |

**GERM CELL MUTAGENICITY**

|                                             |                                   |                         |
|---------------------------------------------|-----------------------------------|-------------------------|
| <b>Product name</b> Castrol EDGE 0W-40 R    | <b>Product code</b> 470106-DE01   | <b>Page:</b> 9/16       |
| <b>Version</b> 7                            | <b>Date of issue</b> 23 July 2025 | <b>Format</b> Spain     |
| <b>Date of previous issue</b> 10 July 2025. |                                   | <b>Language</b> ENGLISH |
|                                             |                                   | <b>(Spain)</b>          |

**SECTION 11: Toxicological information**

| Product/ingredient name                                                 | Test authority / Test number                            | Cell | Type                 | Result                                | Remarks                                            |
|-------------------------------------------------------------------------|---------------------------------------------------------|------|----------------------|---------------------------------------|----------------------------------------------------|
| 1-Decene, homopolymer, hydrogenated                                     | OECD 471 Bacterial Reverse Mutation Test                | -    | Experiment: In vitro | Subject: Bacteria                     | Negative -                                         |
|                                                                         | OECD 473 In vitro Mammalian Chromosomal Aberration Test | -    | Experiment: In vitro | Subject: Mammal - species unspecified | Negative Based on studies with similar substances. |
|                                                                         | OECD 474 Mammalian Erythrocyte Micronucleus Test        | -    | Experiment: In vivo  | Subject: Mammal - species unspecified | Negative Based on studies with similar substances. |
| Dec-1-ene, homopolymer, hydrogenated                                    | OECD 471 Bacterial Reverse Mutation Test                | -    | Experiment: In vitro | Subject: Bacteria                     | Negative -                                         |
|                                                                         | OECD 473 In vitro Mammalian Chromosomal Aberration Test | -    | Experiment: In vitro | Subject: Mammal - species unspecified | Negative Based on studies with similar substances. |
|                                                                         | OECD 474 Mammalian Erythrocyte Micronucleus Test        | -    | Experiment: In vivo  | Subject: Mammal - species unspecified | Negative Based on studies with similar substances. |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | OECD 471 Bacterial Reverse Mutation Test                | -    | Experiment: In vitro | Subject: Bacteria                     | Negative Based on studies with similar substances. |
|                                                                         | OECD 473 In vitro Mammalian Chromosomal Aberration Test | -    | Experiment: In vitro | Subject: Mammal - species unspecified | Negative Based on studies with similar substances. |
|                                                                         | OECD 474 Mammalian Erythrocyte Micronucleus Test        | -    | Experiment: In vivo  | Subject: Mammal - species unspecified | Negative Based on studies with similar substances. |
| bis(nonylphenyl)amine                                                   | 471 Bacterial Reverse Mutation Test                     | -    | Experiment: In vitro | Subject: Bacteria                     | Negative Based on studies with similar substances. |
|                                                                         | 476 In vitro Mammalian Cell Gene Mutation Test          | -    | Experiment: In vitro | Subject: Mammal - species unspecified | Negative Based on studies with similar substances. |
|                                                                         | 487 In vitro Micronucleus Test                          | -    | Experiment: In vitro | Subject: Mammal - species unspecified | Negative -                                         |

**Carcinogenicity**

Not available.

**Reproductive toxicity****Product name** Castrol EDGE 0W-40 R**Product code** 470106-DE01**Page:** 10/16**Version** 7 **Date of issue** 23 July 2025**Format** Spain**Language** ENGLISH**Date of previous issue** 10 July 2025.**(Spain)**

SECTION 11: Toxicological information

| Product/<br>ingredient name                                                          | Test authority /<br>Test number | Species | Route | Exposure | Developmental | Maternal<br>toxicity | Fertility | Remarks    |
|--------------------------------------------------------------------------------------|---------------------------------|---------|-------|----------|---------------|----------------------|-----------|------------|
| 1-Decene,<br>homopolymer,<br>hydrogenated                                            | OECD                            | 415     | Rat   | Oral     | -             | Negative             | Negative  | Negative - |
| Dec-1-ene,<br>homopolymer,<br>hydrogenated                                           | OECD                            | 415     | Rat   | Oral     | -             | Negative             | Negative  | Negative - |
| Dec-1-ene,<br>homopolymer,<br>hydrogenated Dec-<br>1-ene, oligomers,<br>hydrogenated | OECD                            | 415     | Rat   | Oral     | -             | Negative             | Negative  | Negative - |

Aspiration hazard

| Product/ingredient name                                                    | Result                         |
|----------------------------------------------------------------------------|--------------------------------|
| 1-Decene, homopolymer, hydrogenated                                        | ASPIRATION HAZARD - Category 1 |
| Dec-1-ene, homopolymer, hydrogenated                                       | ASPIRATION HAZARD - Category 1 |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene,<br>oligomers, hydrogenated | ASPIRATION HAZARD - Category 1 |

**Conclusion/Summary** Not classified. Based on available data, the classification criteria are not met.

**Conclusion/Summary** Not available.

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

Potential acute health effects

**Inhalation** Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**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.

Potential chronic health effects

**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**  
Not available.

|                                             |                                   |                         |
|---------------------------------------------|-----------------------------------|-------------------------|
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SECTION 11: Toxicological information

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name                                                 | Test authority / Test number |     | Species | Type / Result          | Exposure | Effects | Remarks                                   |
|-------------------------------------------------------------------------|------------------------------|-----|---------|------------------------|----------|---------|-------------------------------------------|
| 1-Decene, homopolymer, hydrogenated                                     | Equivalent to OECD           | 201 | Algae   | Acute EL50 >1000 mg/l  | 72 hours | -       | -                                         |
|                                                                         | OECD                         | 202 | Daphnia | Acute EL50 >1000 mg/l  | 48 hours | -       | -                                         |
|                                                                         | OECD                         | 203 | Fish    | Acute LL50 >1000 mg/l  | 96 hours | -       | -                                         |
|                                                                         | OECD                         | 211 | Daphnia | Chronic NOELR 125 mg/l | 21 days  | -       | -                                         |
| Dec-1-ene, homopolymer, hydrogenated                                    | Equivalent to OECD           | 201 | Algae   | Acute EL50 >1000 mg/l  | 72 hours | -       | -                                         |
|                                                                         | OECD                         | 202 | Daphnia | Acute EL50 >1000 mg/l  | 48 hours | -       | -                                         |
|                                                                         | OECD                         | 203 | Fish    | Acute LL50 >1000 mg/l  | 96 hours | -       | -                                         |
|                                                                         | OECD                         | 211 | Daphnia | Chronic NOELR 125 mg/l | 21 days  | -       | -                                         |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | OECD                         | 201 | Algae   | Acute EL50 >1000 mg/l  | 72 hours | -       | Based on studies with similar substances. |
|                                                                         | OECD                         | 202 | Daphnia | Acute EL50 >1000 mg/l  | 48 hours | -       | Based on studies with similar substances. |
|                                                                         | OECD                         | 203 | Fish    | Acute LL50 >1000 mg/l  | 96 hours | -       | -                                         |
|                                                                         | OECD                         | 211 | Daphnia | Chronic NOELR 125 mg/l | 21 days  | -       | Based on studies with similar substances. |
| bis(nonylphenyl)amine                                                   | OECD                         | 201 | Algae   | Acute EL50 >100 mg/l   | 72 hours | -       | Based on studies with similar substances. |
|                                                                         | OECD                         | 202 | Daphnia | Acute EL50 >100 mg/l   | 48 hours | -       | -                                         |
|                                                                         | OECD                         | 203 | Algae   | Acute LL50 >100 mg/l   | 96 hours | -       | -                                         |
|                                                                         | OECD                         | 201 | Algae   | Chronic NOEL >10 mg/l  | 72 hours | -       | -                                         |

Environmental hazards Not classified as dangerous

12.2 Persistence and degradability

Not expected to be rapidly degradable.

| Product/ingredient name | Test authority / Test number | Result - Exposure           | Remarks                                   |
|-------------------------|------------------------------|-----------------------------|-------------------------------------------|
| bis(nonylphenyl)amine   | OECD 301B                    | 1 % - Not readily - 28 days | Based on studies with similar substances. |

12.3 Bioaccumulative potential

|                        |                      |               |              |          |         |
|------------------------|----------------------|---------------|--------------|----------|---------|
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**SECTION 12: Ecological information**

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

| Product/ingredient name              | LogP <sub>ow</sub> | BCF  | Potential |
|--------------------------------------|--------------------|------|-----------|
| Dec-1-ene, homopolymer, hydrogenated | >10                | -    | High      |
| Dec-1-ene, trimers, hydrogenated     | >6.5               | -    | High      |
| Dec-1-ene, trimers, hydrogenated     | >10                | -    | High      |
| bis(nonylphenyl)amine                | 3.64 to 7.02       | 1730 | High      |

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)**

Not available.

**Mobility**

Spillages may penetrate the soil causing ground water contamination.

**12.5 Results of PBT and vPvB assessment**

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

**12.6 Endocrine disrupting properties**

Not available.

**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 08*  | other 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           |
|----------------------------------------|----------------|----------------|----------------|----------------|
| <b>14.1 UN number or ID number</b>     | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| <b>14.2 UN proper shipping name</b>    | -              | -              | -              | -              |
| <b>14.3 Transport hazard class(es)</b> | -              | -              | -              | -              |
| <b>14.4 Packing group</b>              | -              | -              | -              | -              |

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SECTION 14: Transport information

|                            |     |     |     |     |
|----------------------------|-----|-----|-----|-----|
| 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](#)

| Product/ingredient name                | %       | Designation [Usage] |
|----------------------------------------|---------|---------------------|
| nickel                                 | <0.01   | 27                  |
| lead powder [particle diameter < 1 mm] | <0.0001 | 72                  |

[Labelling](#) Not applicable.

[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 \(CSCL\)](#) All components are listed or exempted.

[Korea inventory \(KECI\)](#) All components are listed or exempted.

[Philippines inventory \(PICCS\)](#) At least one component is not listed.

[Taiwan Chemical Substances Inventory \(TCSI\)](#) All components are listed or exempted.

[Explosive precursors](#) Not applicable.

[Ozone depleting substances \(1005/2009/EU\)](#)

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.

|                                                      |                                            |                              |
|------------------------------------------------------|--------------------------------------------|------------------------------|
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SECTION 15: Regulatory information

|                                 |                                                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road<br>ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>CAS = Chemical Abstracts Service<br>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]<br>CSA = Chemical Safety Assessment<br>CSR = Chemical Safety Report<br>DMEL = Derived Minimal Effect Level<br>DNEL = Derived No Effect Level<br>EINECS = European Inventory of Existing Commercial chemical Substances<br>ES = Exposure Scenario<br>EUH statement = CLP-specific Hazard statement<br>EWC = European Waste Catalogue<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>OECD = Organisation for Economic Co-operation and Development<br>PBT = Persistent, Bioaccumulative and Toxic<br>PNEC = Predicted No Effect Concentration<br>REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]<br>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail<br>RRN = REACH Registration Number<br>SADT = Self-Accelerating Decomposition Temperature<br>SVHC = Substances of Very High Concern<br>STOT-RE = Specific Target Organ Toxicity - Repeated Exposure<br>STOT-SE = Specific Target Organ Toxicity - Single Exposure<br>TWA = Time weighted average<br>UN = United Nations<br>UVCB = Complex hydrocarbon substance<br>VOC = Volatile Organic Compound<br>vPvB = Very Persistent and Very Bioaccumulative<br>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<br>H317<br>H373<br>H413<br>May be fatal if swallowed and enters airways.<br>May cause an allergic skin reaction.<br>May cause damage to organs through prolonged or repeated exposure.<br>May cause long lasting harmful effects to aquatic life.     |
| Full text of classifications [CLP/GHS] | Aquatic Chronic 4<br>Asp. Tox. 1<br>Skin Sens. 1B<br>STOT RE 2<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4<br>ASPIRATION HAZARD - Category 1<br>SKIN SENSITISATION - Category 1B<br>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |

History

|                        |                      |               |              |          |         |
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SECTION 16: Other information

Date of issue/ Date of revision 23/07/2025.  
Date of previous issue 10/07/2025.  
Prepared by Product Stewardship Group

Indicates information that has changed from previously issued version.

Notice to reader

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