

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

1.1 Product identifier

| | |
|---------------------|-------------------------------------|
| Product name | Castrol ON EV Transmission Fluid D2 |
| Product code | 470525-DE41 |
| SDS # | 470525 |
| Product type | Liquid. |

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

| Identified uses |
|---|
| General use of lubricants and greases in vehicles or machinery-Industrial |
| General use of lubricants and greases in vehicles or machinery-Professional |

| | |
|--|--|
| Use of the substance/ mixture | EV Transmission Fluid - Dry e-motor For specific application advice see appropriate Technical Data Sheet or consult our company representative. |
|--|--|

1.3 Details of the supplier of the safety data sheet

| | |
|-----------------------|---|
| Supplier | Castrol Holdings Europe B.V., d'Arcyweg 76, 3198NA Europoort Rotterdam Castrol France SAS Campus Saint Christophe, Bâtiment Galilée 3, 10 Avenue de l'Entreprise, Cergy-Pontoise, Cedex, 95863 +33 (0) 805 638 301 |
| E-mail address | MSDSadvice@bp.com |

1.4 Emergency telephone number

| | |
|---------------------------------------|--|
| EMERGENCY TELEPHONE NUMBER | Tél 01 45 42 59 59 : ORFILA Tél 01 40 05 48 48 - Centre Anti-Poisons de Paris, Hôpital Fernand Widal - 200, Rue de Faubourg Saint-Denis - 75475 Paris Cedex 10 Tél 04 72 11 69 11 - Centre Antipoison et de Toxicovigilance de LYON, Bâtiment A, 4ème étage, 162, avenue Lacassagne, 69424 Lyon Cedex 03 Tél 04 91 75 25 25 - Centre Anti-Poisons de Marseille, Hôpital Salvator, 249, Boulevard Sainte- Marguerite - 13274 Marseille Cedex 9 Tél: 01 30 30 49 99 - Permanence BP France 24/24 Carechem: +44 (0) 1235 239 670 (24/7) |
|---------------------------------------|--|

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| | |
|---|-------------------------|
| Product definition | Mixture |
| <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> | Aquatic Chronic 3, H412 |

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

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 | H412 - Harmful to aquatic life with long lasting effects. |
| <u>Precautionary statements</u> | |
| General | P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand. |
| Prevention | P273 - Avoid release to the environment. |

| | | | | | |
|-------------------------------|-------------------------------------|----------------------|--------------|-----------------|----------|
| Product name | Castrol ON EV Transmission Fluid D2 | Product code | 470525-DE41 | Page: | 1/24 |
| Version | 8 | Date of issue | 11 July 2025 | Format | France |
| Date of previous issue | 26 February 2025. | | | Language | ENGLISH |
| | | | | | (France) |

SECTION 2: Hazards identification

| | |
|--|--|
| Response | Not applicable. |
| Storage | Not applicable. |
| Disposal | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Hazardous ingredients | Not applicable. |
| Supplemental label elements | Not applicable. |
| <u>EU Regulation (EC) No. 1907/2006 (REACH)</u> | |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | Not applicable. |
| <u>Special packaging requirements</u> | |
| 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 contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2. |
| Other hazards which do not result in classification | Defatting to the skin. |

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product definition Mixture
Highly refined base oil (IP 346 DMSO extract < 3%). Synthetic base stock. Proprietary performance additives.

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|--|--|-----------|---|---|---------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5 | ≥50 - ≤75 | Asp. Tox. 1, H304 | - | [1] |
| 1-Decene, homopolymer, hydrogenated | REACH #: 01-2119486452-34 EC: 500-183-1 CAS: 68037-01-4 | ≤10 | Asp. Tox. 1, H304 | - | [1] |
| Dec-1-ene, trimers, hydrogenated | REACH #: 01-2119486452-34 EC: 500-393-3 CAS: 157707-86-3 | ≤10 | Asp. Tox. 1, H304 | - | [1] |
| Dec-1-ene, trimers, hydrogenated | REACH #: 01-2119493949-12 EC: 500-393-3 CAS: 157707-86-3 | ≤10 | Asp. Tox. 1, H304 | - | [1] |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | REACH #: 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0 Index: 649-474-00-6 | ≤3 | Asp. Tox. 1, H304 | - | [1] |
| reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives | REACH #: 01-2119480426-35 01-2120052100-80 CAS: 192268-65-8 Index: 607-501-00-9 | <1 | Repr. 2, H361d Aquatic Chronic 4, H413 | - | [1] [2] |

SECTION 3: Composition/information on ingredients

| | | | | | |
|-------------------------------------|--|------|---|----------------------------------|-----|
| zinc isodecyl phosphorodithioate | REACH #: 01-2120767616-43 EC: 246-618-6 CAS: 25103-54-2 | ≤0.3 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| 2,6-di-tert-butylphenol | REACH #: 01-2119490822-33 EC: 204-884-0 CAS: 128-39-2 | ≤0.3 | Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [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 meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

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

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

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|-----------------------------------|---|
| Eye contact | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention. |
| Skin contact | Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops. |
| Inhalation | If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| Ingestion | Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if symptoms occur. |
| Protection of first-aiders | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

4.2 Most important symptoms and effects, both acute and delayed

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

Potential acute health effects

| | |
|---------------------|--|
| Inhalation | Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure. |
| Ingestion | No known significant effects or critical hazards. |
| Skin contact | Defatting to the skin. May cause skin dryness and irritation. |
| Eye contact | No known significant effects or critical hazards. |

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

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

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures**5.1 Extinguishing media**

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| Suitable extinguishing media | Use foam or all-purpose dry chemical to extinguish. |
| Unsuitable extinguishing media | Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product. |

5.2 Special hazards arising from the substance or mixture

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|--|--|
| Hazards from the substance or mixture | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous combustion products | Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) |

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Product code 470525-DE41

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(France)

SECTION 5: Firefighting measures

| | |
|--|--|
| 5.3 Advice for firefighters | |
| Special precautions for fire-fighters | No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

SECTION 6: Accidental release measures

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| 6.1 Personal precautions, protective equipment and emergency procedures | |
| For non-emergency personnel | Contact 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. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. |
| For emergency responders | Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. 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). Water polluting material. May be harmful to the environment if released in large quantities. |
| 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. Approach the release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilt product. 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

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|---|---|
| The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s). | |
| 7.1 Precautions for safe handling | |
| Protective measures | Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid contact of spilt material and runoff with soil and surface waterways. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous. |
| 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. Use appropriate containment to avoid environmental contamination. |
| Not suitable | Prolonged exposure to elevated temperature |

SECTION 7: Handling and storage

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits No exposure limit value known.

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.

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.

SECTION 8: Exposure controls/personal protection

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.

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Recommended breakthrough times as above.

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

Glove Thickness:

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

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.

- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

Skin and body

Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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

Refer to standards:

Respiratory protection: EN 529

Gloves: EN 420, EN 374

Eye protection: EN 166

Filtering half-mask: EN 149

Filtering half-mask with valve: EN 405

Half-mask: EN 140 plus filter

Full-face mask: EN 136 plus filter

Particulate filters: EN 143

Gas/combined filters: EN 14387







Environmental exposure controls

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

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

| Physical state | Liquid. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------|-------------------------|-------|-------------------------|---|------------|----------------|-------------|--------------------------------------|------------|----------------|-------------|--|------------|----------------|-------------|--|--|--|-------------------------------------|---------|----------|----------------|--|--|--|--|----------|-------|-------------|--|--|--|---|----------|-------|-------------|--|--|--|---|----------|-------|-------------|--|--|--|
| Colour | Brown. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Odour | Not available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Odour threshold | Not available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Melting point/freezing point | Not available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initial boiling point and boiling range | Not available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flammability | Not available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lower and upper explosion limit | Not available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flash point | Open cup: >220°C (>428°F) [Cleveland ASTM D 92] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Auto-ignition temperature | <table><tr><th>Ingredient name</th><th>°C</th><th>°F</th><th>Method</th></tr><tr><td>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></table> | Ingredient name | °C | °F | Method |  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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ingredient name | °C | °F | Method | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Decomposition temperature | Not available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH | Not applicable. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kinematic viscosity | Kinematic: 32.2 mm²/s (32.2 cSt) at 40°C Kinematic: 6.3 to 6.8 mm²/s (6.3 to 6.8 cSt) at 100°C (ASTM D 445) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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="2">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>lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based</td><td><0.07501</td><td><0.01</td><td>ASTM D 5191</td><td></td><td></td><td></td></tr><tr><td>1-Decene, homopolymer, hydrogenated</td><td><0.0041</td><td><0.00055</td><td>ASTM E 1194-87</td><td></td><td></td><td></td></tr><tr><td>Distillates (petroleum), hydrotreated heavy paraffinic</td><td><0.07501</td><td><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><0.07501</td><td><0.01</td><td>ASTM D 5191</td><td></td><td></td><td></td></tr><tr><td>Distillates (petroleum), solvent-refined heavy paraffinic</td><td><0.07501</td><td><0.01</td><td>ASTM D 5191</td><td></td><td></td><td></td></tr></table> | Ingredient name | Vapour Pressure at 20°C | | Vapour pressure at 50°C | | | mm Hg | kPa | Method | mm Hg | kPa | Method |  lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | <0.07501 | <0.01 | ASTM D 5191 | | | | 1-Decene, homopolymer, hydrogenated | <0.0041 | <0.00055 | ASTM E 1194-87 | | | | Distillates (petroleum), hydrotreated heavy paraffinic | <0.07501 | <0.01 | ASTM D 5191 | | | | Distillates (petroleum), solvent-dewaxed heavy paraffinic | <0.07501 | <0.01 | ASTM D 5191 | | | | Distillates (petroleum), solvent-refined heavy paraffinic | <0.07501 | <0.01 | ASTM D 5191 | | | |
| Ingredient name | Vapour Pressure at 20°C | | Vapour pressure at 50°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | mm Hg | kPa | Method | mm Hg | kPa | Method | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | <0.07501 | <0.01 | ASTM D 5191 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-Decene, homopolymer, hydrogenated | <0.0041 | <0.00055 | ASTM E 1194-87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Distillates (petroleum), hydrotreated heavy paraffinic | <0.07501 | <0.01 | ASTM D 5191 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | <0.07501 | <0.01 | ASTM D 5191 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Distillates (petroleum), solvent-refined heavy paraffinic | <0.07501 | <0.01 | ASTM D 5191 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Density and/or Relative density | <1000 kg/m³ (<1 g/cm³) at 15°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relative vapour density | Not available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Particle characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median particle size | Not applicable. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.2 Other information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evaporation rate | Not available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Explosive properties | Not available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oxidising properties | Not available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pour point | -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. 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 |
|--|---------------------------------|-------------------------|---------|-------------|----------|---|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | LC50 Inhalation Dusts and mists | OECD 403 | Rat | >5 mg/l | 4 hours | Based on studies with similar substances. |
| | LD50 Dermal | OECD 402 | Rat | >5000 mg/kg | - | Based on studies with similar substances. |
| | LD50 Oral | OECD 423 | Rat | >5000 mg/kg | - | Based on studies with similar substances. |
| 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- | LD50 Dermal | OECD 402 | Rat | >2000 mg/kg | - | Based on studies with similar |

SECTION 11: Toxicological information

| | | | | | | | |
|--|---------------------------------|------|-----|--------|-------------|---------|---|
| 1-ene, oligomers, hydrogenated | 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 | - |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | LC50 Inhalation Dusts and mists | OECD | 403 | Rat | >5.53 mg/l | 4 hours | - |
| | LD50 Dermal | OECD | 402 | Rat | >2000 mg/kg | - | Based on studies with similar substances. |
| | LD50 Oral | OECD | 401 | Rat | >5000 mg/kg | - | Based on studies with similar substances. |
| reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives | LD50 Dermal | - | - | Rabbit | >2000 mg/kg | - | - |
| | LD50 Oral | OECD | 401 | Rat | >2000 mg/kg | - | - |
| zinc isodecyl phosphorodithioate | LD50 Dermal | OECD | 402 | Rat | >5000 mg/kg | - | Based on studies with similar substances. |
| | LD50 Oral | OECD | 401 | Rat | 3100 mg/kg | - | Based on studies with similar substances. |
| 2,6-di-tert-butylphenol | LD50 Dermal | - | - | Rabbit | >5000 mg/kg | - | - |
| | LD50 Oral | OECD | 401 | Rat | >5000 mg/kg | - | - |

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) |
|----------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| zinc isodecyl phosphorodithioate | 2500 | N/A | N/A | N/A | N/A |

Irritation/Corrosion

| Product/ingredient name | Test authority / Test number | Species | Route / Result | Test concentration | Remarks |
|--|------------------------------|---------|------------------------------------|--------------------|---|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | OECD 405 | Rabbit | Eyes - Severe irritant | - | Based on studies with similar substances. |
| | OECD 404 | Rabbit | Skin - Non-irritant to skin. | - | Based on studies with similar substances. |
| 1-Decene, homopolymer, hydrogenated | OECD 405 | Rabbit | Eyes - Non-irritating to the eyes. | - | - |
| | OECD 404 | Rabbit | Skin - Non-irritant | - | - |

SECTION 11: Toxicological information

| | | | | | | |
|--|------|-----|-------------|--|---|---|
| Dec-1-ene, homopolymer, hydrogenated | OECD | 405 | Rabbit | to skin. 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. | - | - |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | OECD | 405 | Rabbit | Eyes - Non-irritating to the eyes. | - | Based on studies with similar substances. |
| | - | - | Rabbit | Skin - Non-irritant to skin. | - | Based on studies with similar substances. |
| reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives | OECD | 405 | Rabbit | Eyes - Non-irritating to the eyes. | - | - |
| | OECD | 404 | Rabbit | Skin - Non-irritant to skin. | - | - |
| zinc isodecyl phosphorodithioate | OECD | 437 | Unspecified | Eyes - Non-irritating to the eyes. | - | BCOP |
| | OECD | 431 | Unspecified | Skin - Non-irritant to skin. | - | RHE |
| 2,6-di-tert-butylphenol | OECD | 405 | Rabbit | Eyes - Non-irritating to the eyes. | - | - |
| | OECD | 404 | Rabbit | Skin - Irritant | - | - |

Sensitiser

| Product/ingredient name | Route | Test authority / Test number | | Species | Result | Remarks |
|---|-------|------------------------------|-----|------------|-----------------|---|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | skin | OECD | 406 | Guinea pig | Not sensitising | Based on studies with similar substances. |
| 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 | - |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | skin | OECD | 406 | Guinea pig | Not sensitising | Based on studies with similar substances. |
| reaction mass of: triphenylthiophosphate | skin | OECD | 406 | Guinea pig | Not sensitising | - |

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|---|------|------|-----|------------|-----------------|---|
| and tertiary butylated phenyl derivatives | | | | | | |
| zinc isodecyl phosphorodithioate | skin | OECD | 406 | Guinea pig | Not sensitising | Based on studies with similar substances. |
| 2,6-di-tert-butylphenol | skin | OECD | 406 | Guinea pig | Not sensitising | - |

GERM CELL MUTAGENICITY

| Product/ingredient name | Test authority / Test number | Cell | | Type | Result | Remarks |
|---|---|------|----------------------|---------------------------------------|----------|---|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | OECD 473 In vitro Mammalian Chromosomal Aberration Test | - | Experiment: In vitro | Subject: Mammal - species unspecified | Positive | Based on studies with similar substances. |
| | OECD 471 Bacterial Reverse Mutation Test | - | Experiment: In vitro | Subject: Bacteria | Negative | Based on studies with similar substances. |
| | OECD 476 In vitro Mammalian Cell Gene Mutation 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. |
| 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 | - | Experiment: In vitro | Subject: Mammal - | Negative | Based on studies with similar |

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| | | | | | | |
|--|---|---|----------------------|---------------------------------------|----------|---|
| | Chromosomal Aberration Test | | | species unspecified | | substances. |
| | OECD 474 Mammalian Erythrocyte Micronucleus Test | - | Experiment: In vivo | Subject: Mammal - species unspecified | Negative | Based on studies with similar substances. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 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. |
| reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives | 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 | - |
| | OECD 476 In vitro Mammalian Cell Gene Mutation Test | - | Experiment: In vitro | Subject: Mammal - species unspecified | Negative | - |
| zinc isodecyl phosphorodithioate | OECD 471 Bacterial Reverse Mutation Test | - | Experiment: In vitro | Subject: Bacteria | 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. |
| 2,6-di-tert-butylphenol | 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 | - |

Carcinogenicity

| Product/ingredient name | Test authority / Test number | Species | Route | Exposure | Result | Remarks |
|---|------------------------------|---------|--------|----------|----------|---|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | OECD 451 | Mouse | Dermal | - | Negative | Based on studies with similar substances. |

Reproductive toxicity

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| Product/ ingredient name | Test authority / Test number | | Species | Route | Exposure | Developmental | Maternal toxicity | Fertility | Remarks |
|--|---------------------------------|-----|---------|-------|----------|---------------|----------------------|-----------|---|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | OECD | 421 | Rat | Oral | - | Negative | Negative | Negative | Based on studies with similar substances. |
| 1-Decene, homopolymer, hydrogenated | OECD | 415 | Rat | Oral | - | Negative | Negative | Negative | - |
| Dec-1-ene, homopolymer, hydrogenated | OECD | 415 | Rat | Oral | - | Negative | Negative | Negative | - |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | OECD | 415 | Rat | Oral | - | Negative | Negative | Negative | - |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | OECD | 421 | Rat | Oral | - | Negative | Negative | Negative | Based on studies with similar substances. |
| reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives | OECD | 421 | Rat | Oral | - | Negative | Negative | Negative | - |
| zinc isodecyl phosphorodithioate | OECD | 421 | Rat | Oral | - | Negative | Negative | Negative | - |
| 2,6-di-tert-butylphenol | OECD | 421 | Rat | Oral | - | Equivocal | Positive | Negative | Not classified. |

Aspiration hazard

| Product/ingredient name | Result |
|---|--------------------------------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | ASPIRATION HAZARD - Category 1 |
| 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, oligomers, hydrogenated | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 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 | Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure. |
| Ingestion | No known significant effects or critical hazards. |
| Skin contact | Defatting to the skin. May cause skin dryness and irritation. |
| Eye contact | No known significant effects or critical hazards. |
| Symptoms related to the physical, chemical and toxicological characteristics | |
| Inhalation | May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs. |
| Ingestion | No specific data. |

SECTION 11: Toxicological information

| | |
|--|--|
| 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 | No known significant effects or critical hazards. |
| 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.

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 |
|--|------------------------------|-----|---------|-------------------------|----------|---------|---|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | OECD | 202 | Daphnia | Acute EL50 >10000 mg/l | 48 hours | - | Based on studies with similar substances. |
| | OECD | 203 | Fish | Acute LL50 >100 mg/l | 96 hours | - | Based on studies with similar substances. |
| | OECD | 201 | Algae | Acute NOEL ≥100 mg/l | 72 hours | - | - |
| | OECD | 211 | Daphnia | Chronic NOEL ≥1000 mg/l | 21 days | - | Based on studies with similar substances. |
| 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, | OECD | 201 | Algae | Acute EL50 >1000 mg/l | 72 hours | - | Based on |

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| | | | | | | | | |
|---|------|-----|---------|-----------------------------|----------|---|---|---|
| hydrogenated Dec-1-ene, oligomers, hydrogenated | | | | | | | | 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. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | OECD | 201 | Algae | Acute EL50 >100 mg/l | 72 hours | - | | Based on studies with similar substances. |
| | OECD | 202 | Daphnia | Acute EL50 >10000 mg/l | 48 hours | - | | Based on studies with similar substances. |
| | OECD | 203 | Fish | Acute LL50 >100 mg/l | 96 hours | - | | Based on studies with similar substances. |
| | OECD | 201 | Algae | Chronic NOEL ≥100 mg/l | 72 hours | - | | Based on studies with similar substances. |
| | OECD | 211 | Daphnia | Chronic NOEL 10 mg/l | 21 days | - | | Based on studies with similar substances. |
| reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives | OECD | 201 | Algae | Acute EC50 >100 mg/l | 72 hours | - | - | |
| | OECD | 202 | Daphnia | Acute EC50 >100 mg/l | 48 hours | - | - | |
| | OECD | 203 | Fish | Acute LC50 >100 mg/l | 96 hours | - | - | |
| | OECD | 201 | Algae | Chronic NOEC >100 mg/l | 72 hours | - | - | |
| | OECD | 211 | Daphnia | Chronic NOEC 0.026 mg/ l | 21 days | - | - | |
| | OECD | 210 | Fish | Chronic NOEC 0.0044 mg/l | 87 days | - | - | |
| zinc isodecyl phosphorodithioate | OECD | 202 | Daphnia | Acute EC50 0.2 mg/l | 48 hours | - | - | |
| | OECD | 201 | Algae | Acute ErC50 >1.6 mg/l | 72 hours | - | - | |
| | OECD | 203 | Fish | Acute LC50 >0.28 mg/l | 96 hours | - | - | |
| 2,6-di-tert-butylphenol | OECD | 201 | Algae | Acute EL50 1.2 mg/l | 96 hours | - | - | |

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| | | | | | | | |
|--|------|-----|---------|-------------------------|----------|---|---|
| | OECD | 202 | Daphnia | Acute EL50 0.45 mg/l | 48 hours | - | - |
| | OECD | 203 | Fish | Acute LC50 1.4 mg/l | 96 hours | - | - |
| | OECD | 201 | Algae | Chronic NOEC 0.64 mg/l | 96 hours | - | - |
| | OECD | 211 | Daphnia | Chronic NOEC 0.035 mg/l | 21 days | - | - |

Environmental hazards Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Partially biodegradable.

| Product/ingredient name | Test authority / Test number | Result - Exposure | Remarks |
|--|------------------------------|------------------------------|---|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | OECD 301F | 31 % - Inherent - 28 days | Based on studies with similar substances. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | OECD 301F | 31 % - Not readily - 28 days | Based on studies with similar substances. |
| reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives | OECD 301D | 0 % - Not readily - 28 days | - |
| zinc isodecyl phosphorodithioate | OECD 301b | 1 % - Not readily - 28 days | Based on studies with similar substances. |
| 2,6-di-tert-butylphenol | OECD 301B | 24 % - Not readily - 28 days | - |

12.3 Bioaccumulative potential

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

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--|--------------------|-----|-----------|
| Dec-1-ene, homopolymer, hydrogenated | >10 | - | High |
| Dec-1-ene, trimers, hydrogenated | >6.5 | - | High |
| Dec-1-ene, trimers, hydrogenated | >10 | - | High |
| reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives | 4.8 to 8.8 | - | High |
| 2,6-di-tert-butylphenol | 4.5 | - | High |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) 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.

SECTION 12: Ecological information

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|--|------------------|-----------|-----------|-----------|------|-----|-----|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | No | N/A | N/A | No | N/A | N/A | N/A |
| 1-Decene, homopolymer, hydrogenated | No | N/A | N/A | No | N/A | N/A | N/A |
| Dec-1-ene, trimers, hydrogenated | No | N/A | N/A | No | N/A | N/A | N/A |
| Dec-1-ene, trimers, hydrogenated | No | N/A | N/A | No | N/A | N/A | N/A |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | No | N/A | N/A | No | N/A | N/A | N/A |
| reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives | SVHC (Candidate) | Specified | Specified | Specified | N/A | N/A | N/A |
| zinc isodecyl phosphorodithioate | No | N/A | N/A | No | N/A | N/A | N/A |
| 2,6-di-tert-butylphenol | No | N/A | N/A | No | N/A | N/A | N/A |

- 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

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

13.1 Waste treatment methods

- Product

Methods of disposal

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

References

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

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number or ID number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - | - |
| | | | | |

SECTION 14: Transport information

| | | | | |
|----------------------------|-----|-----|-----|-----|
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. | No. |
| Additional information | - | - | - | - |

14.6 Special precautions for user Not available.

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

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

| Ingredient name | Intrinsic property | Status | Reference number | Date of revision |
|--|--------------------|-----------|---------------------|------------------|
| reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives | PBT | Candidate | 2025D(2024) 7663-DC | 1/21/2025 |

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

| Product/ingredient name | % | Designation [Usage] |
|----------------------------------|--------|---------------------|
| BOT 350 M3 BEV (Neuhof) - Parent | 95-100 | 3 |

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 (AIIIC) All components are listed or exempted.

Canada inventory All components are listed or exempted.

China inventory (IECSC) All components are listed or exempted.

Japan inventory (CSCL) All components are listed or exempted.

Korea inventory (KECI) All components are listed or exempted.

Philippines inventory (PICCS) All components are listed or exempted.

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

None of the components are listed.

EU - Water framework directive - Priority substances

None of the components are listed.

Seveso Directive

| | | | | | |
|------------------------|-------------------------------------|---------------|--------------|----------|----------|
| Product name | Castrol ON EV Transmission Fluid D2 | Product code | 470525-DE41 | Page: | 18/24 |
| Version | 8 | Date of issue | 11 July 2025 | Format | France |
| Date of previous issue | 26 February 2025. | | | Language | ENGLISH |
| | | | | | (France) |

SECTION 15: Regulatory information

This product is not controlled under the Seveso Directive.

National regulations

**Social Security Code,
Articles L 461-1 to L 461-7**

Sécurité sociale : tableau 36

**Reinforced medical
surveillance**

Not classified.

**15.2 Chemical safety
assessment**

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

SECTION 16: Other information**Abbreviations and acronyms**

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SADT = Self-Accelerating Decomposition Temperature
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVCB = Complex hydrocarbon substance
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative
Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4 / RRN 01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN 01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN 01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN 01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN 01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8, 64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 / RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN 01-2119474889-13

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

| Classification | Justification |
|-------------------------|--------------------|
| Aquatic Chronic 3, H412 | Calculation method |

Product name Castrol ON EV Transmission Fluid D2

Product code 470525-DE41

Page: 19/24

Version 8 **Date of issue** 11 July 2025

Format France

Language ENGLISH

Date of previous issue 26 February 2025.

(France)

SECTION 16: Other information

| | | |
|--|-------------------|---|
| Full text of abbreviated H statements | H304 | May be fatal if swallowed and enters airways. |
| | H315 | Causes skin irritation. |
| | H361d | Suspected of damaging the unborn child. |
| | H400 | Very toxic to aquatic life. |
| | H410 | Very toxic to aquatic life with long lasting effects. |
| | H413 | May cause long lasting harmful effects to aquatic life. |
| Full text of classifications [CLP/GHS] | Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| | Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| | Aquatic Chronic 4 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 |
| | Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| | Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| | Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |

History

| | |
|---------------------------------|---------------------|
| Date of issue/ Date of revision | 11/07/2025. |
| Date of previous issue | 26/02/2025. |
| Prepared by | Product Stewardship |

Indicates information that has changed from previously issued version.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

| | |
|--------------------|-------------------------------------|
| Product definition | Mixture |
| Code | 470525-DE41 |
| Product name | Castrol ON EV Transmission Fluid D2 |

Section 1: Title

| | |
|--------------------------------------|---|
| Short title of the exposure scenario | General use of lubricants and greases in vehicles or machinery - Industrial |
| List of use descriptors | Identified use name: General use of lubricants and greases in vehicles or machinery-Industrial Process Category: PROC01, PROC08b, PROC09, PROC02 Sector of end use: SU03 Subsequent service life relevant for that use: No. Environmental Release Category: ERC04, ERC07 Specific Environmental Release Category: ATIEL-ATC SPERC 4.Biv1 |

| | |
|---|---|
| Processes and activities covered by the exposure scenario | Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities. |
|---|---|

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

No exposure scenario is presented because the product is not classified for Human Health

Contributing scenarios: Operational conditions and risk management measures

Section 2.2: Control of environmental exposure

Amounts used:

| | |
|--|---------------------|
| EU tonnage of risk determining substance per year: | 2.63E+3 Tonnes/year |
|--|---------------------|

Frequency and duration of use:

| | |
|---------------|-----|
| Emission days | 300 |
|---------------|-----|

Environment factors not influenced by risk management:

| | |
|------------------------------------|-----|
| Local freshwater dilution factor | 10 |
| Local marine water dilution factor | 100 |

Other conditions affecting environmental exposure:

Negligible wastewater emissions as process operates without water contact.

| | |
|--|----------|
| Release fraction to air (after typical onsite RMMs) | 5.00E-05 |
| Release fraction to soil from process (after typical onsite RMMs) | 0 |
| Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan) | 5.00E-11 |

Technical conditions and measures at process level (source) to prevent release:

Common practices vary across sites thus conservative process release estimates used.

Castrol ON EV Transmission Fluid D2

General use of lubricants and greases in vehicles or machinery - Industrial

| | |
|---|---|
| Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil: | Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant |
| Organisational measures to prevent/limit release from site: | Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed. |
| Conditions and measures related to sewage treatment plant: | |
| Estimated substance removal from wastewater via on-site sewage treatment | 0.09 |
| Assumed domestic sewage treatment plant flow rate (m3/d) | 2.00E+3 |
| Maximum allowable site tonnage (M _{Safe}) based on release following total wastewater treatment removal as product: | 1587.9 |
| Conditions and measures related to external treatment of waste for disposal: | External treatment and disposal of waste should comply with applicable local and/or national regulations. |
| Conditions and measures related to external recovery of waste: | External recovery and recycling of waste should comply with applicable local and/or national regulations. |

Section 3: Exposure estimation and reference to its source

| | |
|--|--|
| Exposure estimation and reference to its source - Environment | |
| Exposure assessment (environment): | Used ECETOC TRA model (May 2010 release). |
| Exposure estimation and reference to its source - Workers | |
| Exposure assessment (human): | No exposure scenario is presented because the product is not classified for Human Health |

Section 4: Guidance to check compliance with the exposure scenario

| | |
|--------------------|--|
| Environment | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES |
| Health | No exposure scenario is presented because the product is not classified for Human Health |

Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

| | |
|--------------------|-------------------------------------|
| Product definition | Mixture |
| Code | 470525-DE41 |
| Product name | Castrol ON EV Transmission Fluid D2 |

Section 1: Title

| | |
|--------------------------------------|---|
| Short title of the exposure scenario | General use of lubricants and greases in vehicles or machinery - Professional |
| List of use descriptors | Identified use name: General use of lubricants and greases in vehicles or machinery-Professional Process Category: PROC01, PROC02, PROC08b, PROC09 Sector of end use: SU03 Subsequent service life relevant for that use: No. Environmental Release Category: ERC04, ERC07 Specific Environmental Release Category: ATIEL-ATC SPERC 4.Biv1 |

| | |
|---|---|
| Processes and activities covered by the exposure scenario | Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities. |
|---|---|

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

No exposure scenario is presented because the product is not classified for Human Health

Contributing scenarios: Operational conditions and risk management measures

Section 2.2: Control of environmental exposure

Amounts used:

| | |
|--|---------------------|
| EU tonnage of risk determining substance per year: | 2.63E+3 Tonnes/year |
|--|---------------------|

Frequency and duration of use:

| | |
|---------------|-----|
| Emission days | 300 |
|---------------|-----|

Environment factors not influenced by risk management:

| | |
|------------------------------------|-----|
| Local freshwater dilution factor | 10 |
| Local marine water dilution factor | 100 |

Other conditions affecting environmental exposure:

Negligible wastewater emissions as process operates without water contact.

| | |
|--|----------|
| Release fraction to air (after typical onsite RMMs) | 5.00E-05 |
| Release fraction to soil from process (after typical onsite RMMs) | 0 |
| Release fraction to wastewater from process (after typical onsite RMMs and before sewage treatment plan) | 5.00E-11 |

| | |
|---|--|
| Technical conditions and measures at process level (source) to prevent release: | Common practices vary across sites thus conservative process release estimates used. |
|---|--|

Castrol ON EV Transmission Fluid D2

General use of lubricants and greases in vehicles or machinery - Professional

| | |
|---|---|
| Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil: | Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant |
| Organisational measures to prevent/limit release from site: | Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed. |
| Conditions and measures related to sewage treatment plant: | |
| Estimated substance removal from wastewater via on-site sewage treatment | 0.09 |
| Assumed domestic sewage treatment plant flow rate (m ³ /d) | 2.00E+3 |
| Maximum allowable site tonnage (M _{Safe}) based on release following total wastewater treatment removal as product: | 20.1 |
| Conditions and measures related to external treatment of waste for disposal: | External treatment and disposal of waste should comply with applicable local and/or national regulations. |
| Conditions and measures related to external recovery of waste: | External recovery and recycling of waste should comply with applicable local and/or national regulations. |

Section 3: Exposure estimation and reference to its source

| | |
|--|--|
| Exposure estimation and reference to its source - Environment | |
| Exposure assessment (environment): | Used ECETOC TRA model (May 2010 release). |
| Exposure estimation and reference to its source - Workers | |
| Exposure assessment (human): | No exposure scenario is presented because the product is not classified for Human Health |

Section 4: Guidance to check compliance with the exposure scenario

| | |
|--------------------|--|
| Environment | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES |
| Health | No exposure scenario is presented because the product is not classified for Human Health |