



1. Identification of the material and supplier

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| Product name | Castrol EDGE 0W-20 |
| SDS no. | 465073 |
| Product use | Engine Oils. For specific application advice see appropriate Technical Data Sheet or consult our company representative. |
| Supplier | Castrol Australia Pty Ltd Level 17, 717 Bourke Street Docklands, Victoria 3008 ABN 87 008 459 407 www.castrol.com.au Tel: +61 (03) 9268 4111 Fax: +61 (03) 9268 3321 |
| EMERGENCY TELEPHONE NUMBER | +61 2801 44558 (or 1800 14 14 74 within Australia) |
| OTHER PRODUCT INFORMATION | Technical Advice Helpline Number: 1300 557 998 |
| Product code | 465073-AU07 |

2. Hazards identification

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| Statement of hazardous/dangerous nature | NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. |
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3. Composition/information on ingredients

Highly refined base oil (IP 346 DMSO extract < 3%). Synthetic base stock. Proprietary performance additives.
This product does not contain any hazardous ingredients at or above regulated thresholds.

4. 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 appear. |
| Ingestion | Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Advice to doctor | Treatment should in general be symptomatic and directed to relieving any effects. |

5. Fire-fighting measures

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| Extinguishing media | |
| Suitable | In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray. |
| Not suitable | Do not use water jet. |
| Hazardous decomposition products | Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| Unusual fire/explosion hazards | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Special fire-fighting procedures | 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. |
| Protection of 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. |

6 . Accidental release measures

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| Personal precautions | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8). |
| 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). |
| Large spill | Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. |
| Small spill | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |

7 . Handling and storage

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| Handling | Put on appropriate personal protective equipment. |
| Storage | Store and use only in equipment/containers designed for use with this product. 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. Do not store in unlabelled containers. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). |
| Not suitable | Prolonged exposure to elevated temperature |

8 . Exposure controls/personal protection

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| Ingredient name | Occupational exposure limits |
| Base oil - unspecified | Safe Work Australia (Australia). TWA: 5 mg/m ³ 8 hours. Form: Oil mist, mineral |
| Base oil - unspecified | Safe Work Australia (Australia). TWA: 5 mg/m ³ 8 hours. Form: Oil mist, mineral |

Whilst specific OELs for certain components are included in this SDS, it should be noted that other components of the preparation will be present in any mist, vapour or dust produced. For this reason, the specific OELs may not be applicable to the product and are provided for guidance purposes.

Biological Limit Values No biological limit allocated.

Exposure controls

Occupational exposure controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours 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.

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.

Personal protective equipment

Respiratory protection

None required. However, use of adequate ventilation is good industrial practice.

Skin and body

None required; however, use of protective clothing is good industrial practice.

Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/ manufacturer and with a full assessment of the working conditions.

Eye protection

Safety glasses with side shields.

9 . Physical and chemical properties

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| Physical state | Liquid. |
| Colour | Amber. |
| Odour | Mild |
| Flash point | 226 °C (Closed cup) Pensky-Martens. |
| Vapour pressure | Not available. |

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| Vapour density | Not available. |
| Viscosity | Kinematic: 45.33 mm ² /s (45.33 cSt) at 40°C Kinematic: 8.3 to 9.3 mm ² /s (8.3 to 9.3 cSt) at 100°C |
| pH | Not available. |
| Boiling point / range | Not available. |
| Melting point / range | Not available. |
| Pour point | -48 °C |
| Relative density/Specific gravity | Not available. |
| Density | 849 kg/m ³ (0.849 g/cm ³) at 15°C |
| Solubility | insoluble in water. |

10 . Stability and reactivity

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| Stability | The product is stable. |
| Conditions to avoid | Avoid all possible sources of ignition (spark or flame). |
| Incompatibility with various substances/Hazardous Reactions | Reactive or incompatible with the following materials: oxidising materials. |
| Hazardous decomposition products | Decomposition products may include the following materials: carbon dioxide carbon monoxide |

11 . Toxicological information

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| Effects and symptoms | |
| Eyes | No significant health hazards identified. |
| Skin | No significant health hazards identified. |
| Inhalation | No significant health hazards identified. |
| Ingestion | No significant health hazards identified. |
| Chronic toxicity | |
| Other chronic toxicity data | 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. |
| Carcinogenic effects | No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC), the European Commission (EC), or the National Occupational Health and Safety Commission (Australia). |
| Mutagenic effects | No known significant effects or critical hazards. |

12 . Ecological information

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| Ecotoxicity | Not classified as environmentally hazardous in accordance with the 'Approved Criteria for Classifying Hazardous Substances' [NOHSC (1008)/2004 as amended and adapted]. |
| Biodegradability | |
| Persistence/degradability | The biodegradability of this material has not been determined. |
| Mobility | Spillages may penetrate the soil causing ground water contamination. |
| Bioaccumulative potential | This product is not expected to bioaccumulate through food chains in the environment. |
| Other ecological information | Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired. |

13 . Disposal considerations

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| Disposal considerations / Waste information | The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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. |
| Special Precautions for Landfill or Incineration | No additional special precautions identified. |

14 . Transport information

International transport regulations

Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).

Special precautions for user No known special precautions required. See Section: "Handling and storage" for additional information.

15 . Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not scheduled

Consumer products - This product is exempt per Appendix A of the SUSMP.

Control of Scheduled Carcinogenic Substances

Ingredient name

No Listed Substance

Schedule

Other regulations

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| REACH Status | For the REACH status of this product please consult your company contact, as identified in Section 1. |
| United States inventory (TSCA 8b) | All components are listed or exempted. |
| Australia inventory (AICS) | 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 (ENCS) | All components are listed or exempted. |
| Korea inventory (KECI) | All components are listed or exempted. |
| Philippines inventory (PICCS) | All components are listed or exempted. |

16 . Other information

Key to abbreviations

AMP = Acceptable Maximum Peak
ACGIH = American Conference of Governmental Industrial Hygienists, an agency that promulgates exposure standards.
ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail
ADG Code = Australian Code for the Transport of Dangerous Goods by Road and Rail
CAS Number = Chemical Abstracts Service Registry Number
HAZCHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for Dangerous Goods in bulk.
ICAO = International Civil Aviation Organization.
IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.
IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.
IP 346 = A chemical screening assay for dermal toxicity. The European Commission has recommended that Method IP 346 be used as the basis for labelling certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.)
DMSO is a solvent.
NOHSC = National Occupational Health & Safety Commission, Australia
TWA = Time weighted average
STEL = Short term exposure limit
UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.

History

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| Prepared by | Product Stewardship |

Notice to reader

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