# SAFETY DATA SHEET



Castrol EDGE 5W-50 S

## **Section 1. Identification**

Product name	Castrol EDGE 5W-50 S
Product code	470743-US65
SDS no.	470743
Use of the substance/mixture	Engine Oils. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Product type	Liquid.
Supplier	Castrol New Zealand Limited Level 2 - 105 Carlton Gore Road Newmarket Auckland, New Zealand
	www.castrol.com/nz Technical Helpline 0800 10 40 60
Emergency telephone number	0800 243643 (0800 CHEMHELP) (NZ use only)
New Zealand National Poisons Centre	0800 764 766 National Poison Centre

## Section 2. Hazards identification

**HSNO Classification** 

Not classified.

This material is not classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

GHS label elements				
Signal word	No signal word.			
Hazard statements	No known significant effects or critical hazards.			
Precautionary statements				
Prevention	Not applicable.			
Response	Not applicable.			
Storage	Not applicable.			
Disposal	Not applicable.			
Other hazards which do not result in classification	Defatting to the skin. USED ENGINE OILS Used engine oil may contain hazardous components which have the potential to cause skin cancer. See Toxicological Information, section 11 of this Safety Data Sheet.			

## Section 3. Composition/information on ingredients

Substance/mixture Mixture

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

Product nameCastrol EDGE 5W-50 S

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## Section 3. Composition/information on ingredients

Ingredient name	% (w/w)	CAS number		
₱istillates (petroleum), hydrotreated heavy paraffinic	≥30 - ≤60	64742-54-7		
Distillates (petroleum), hydrotreated heavy paraffinic	≥30 - ≤60	64742-54-7		
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤3	64742-65-0		
bis(nonylphenyl)amine	≤3	36878-20-3		
Distillates (petroleum), solvent-dewaxed light paraffinic	≤3	64742-56-9		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

## Section 4. First aid measures

Description of necessary first a	id measures
Inhalation	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.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
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 symptoms occur. If skin irritation or rash occurs: Get medical advice/attention.
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.
Indication of immediate medica	I attention and special treatment needed, if necessary
Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects. 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.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training

## Section 5. Firefighting measures

Extinguishing media	
Suitable	In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
Not suitable	Do not use water jet.
Specific hazards arising from the chemical	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, CO₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO₂ etc.)
Hazchem code	Not available.
Special precautions for fire- fighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
Special protective equipment for fire-fighters	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## Section 6. Accidental release measures

Personal precautions, protecti	ve equipment and emergency procedures		
For non-emergency personnel	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".		
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".		
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).		
Methods and material for cont	ainment 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.		
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## Section 7. Handling and storage

Precautions for safe handling	Put on appropriate personal protective equipment (see Section 8).
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
Not suitable	Prolonged exposure to elevated temperature

# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
₱stillates (petroleum), hydrotreated heavy paraffinic	HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand). [Oil mineral] WES-TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/ Revised: 9/2010 Form: Mist
Distillates (petroleum), hydrotreated heavy paraffinic	HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand). [Oil mineral] WES-TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/ Revised: 9/2010 Form: Mist
Distillates (petroleum), solvent-dewaxed heavy paraffinic	HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand). [Oil mineral] WES-TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/
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# Section 8. Exposure controls/personal protection

Revised: 9/2010 Form: Mist

Distillates (petroleum), solvent-dewaxed light paraffinic	HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand). [Oil mineral] WES-TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/ Revised: 9/2010 Form: Mist
Biological exposure indices	

#### **Biological exposure indices**

be made to appropriate monitoring standards. Reference to documents for methods for the determination of hazardous so be required. ing chemicals should be assessed for their risks to health, to are adequately controlled. Personal protective equipment should
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d after other forms of control measures (e.g. engineering controls) y evaluated. Personal protective equipment should conform to ards, be suitable for use, be kept in good condition and properly ersonal protective equipment should be consulted for advice on ropriate standards. For further information contact your national andards. entilation or other engineering controls to keep the relevant ations below their respective occupational exposure limits. i protective equipment will depend upon a risk assessment. It is
e that all items of personal protective equipment are compatible.
entilation or work process equipment should be checked to ensure the requirements of environmental protection legislation. In some obers, filters or engineering modifications to the process necessary to reduce emissions to acceptable levels.
arms and face thoroughly after handling chemical products, before nd using the lavatory and at the end of the working period. Iques should be used to remove potentially contaminated clothing. ed clothing before reusing. Ensure that eyewash stations and e close to the workstation location.
h side shields.
oves if prolonged or repeated contact is likely. Wear chemical Recommended: Nitrile gloves. The correct choice of protective bon the chemicals being handled, the conditions of work and use, of the gloves (even the best chemically resistant glove will break ed chemical exposures). Most gloves provide only a short time of hey must be discarded and replaced. Because specific work material handling practices vary, safety procedures should be h intended application. Gloves should therefore be chosen in he supplier/manufacturer and with a full assessment of the S.
ear and any additional skin protection measures should be the task being performed and the risks involved and should be cialist before handling this product.
ent ventilation, wear suitable respiratory equipment. e of respiratory protection depends upon the chemicals being itions of work and use, and the condition of the respiratory procedures should be developed for each intended application. tion equipment should therefore be chosen in consultation with facturer and with a full assessment of the working conditions.
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## Section 9. Physical and chemical properties

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

<u>Appearance</u>										
Physical state	Liquid.									
Colour	Brown.									
Odour	Not available.									
pH	Not applicable.									
Melting point/freezing point	Not available.									
Boiling point, initial boiling point, and boiling range	Not available.									
Drop Point	Not available.									
Flash point	Ølosed cup: >200°C	; (>392°F)	[Pensky-	-Marter	າs AST	M D 93	3]			
Auto-ignition temperature	Ingredient name		°C	°C °F			Method			
	bis(nonylphenyl)amine		440 824			EU A.15				
Flammability	Not available.			I		I				
Vapour pressure		Vapou	ır Pressi	r Pressure at 20°C			Vapour pressure at 50°C			
	Ingredient name	mm Hg	kPa	Method		mm Hg	kPa	Method		
	<b>P</b> istillates (petroleum), hydrotreated heavy paraffinic	<0.07501	<0.01	ASTM I	D 5191					
	Distillates (petroleum), hydrotreated heavy paraffinic	<0.07501	<0.01	ASTM I	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		
	Distillates (petroleum), solvent-dewaxed light paraffinic	<0.07501	<0.01	ASTM D 5191						
Relative vapour density	Not available.		1	-		-				
Density	<1000 kg/m³ (<1 g/c	۳³) at 15°	'C							
Solubility(ies)										
Media	Result									
water	Not soluble									
Viscosity	√ Kinematic: 103.9 mm²/s (103.9 cSt) at 40°C Kinematic: 16.4 to 17.4 mm²/s (16.4 to 17.4 cSt) at 100°C									
Particle characteristics										
	Not applicable.									

Chemical stability	The product is stable.
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.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

Information on likely routes of exposure				
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.			
Potential chronic health effect	<u>s</u>			
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.			
Inhalation	Not applicable.			
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.			
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.			
Eye contact	No known significant effects or critical hazards.			
Carcinogenicity	No known significant effects or critical hazards.			
Mutagenicity	No known significant effects or critical hazards.			
Teratogenicity	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.			
Aspiration hazard				

Name

**D**istillates (petroleum), hydrotreated heavy paraffinic Distillates (petroleum), solvent-dewaxed light paraffinic

# Section 12. Ecological information

#### **Ecotoxicity**

No known significant effects or critical hazards.

### Persistence and degradability

Not expected to be rapidly degradable.

#### **Bioaccumulative potential**

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

Product/ingredient name	LogPow	BCF	Potential
bis(nonylphenyl)amine	3.64 to 7.02	1730	High

### Mobility in soil

Mobility Soil/water partition coefficient (Koc) Spillages may penetrate the soil causing ground water contamination. Not available.

Other ecological information

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

## Section 13. Disposal considerations

**Disposal methods** 

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. 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.

# Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
New Zealand Class	Not regulated.	-	-	-		-
ADG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-

PG\* : Packing group

# Section 15. Regulatory information

#### New Zealand Regulatory Information

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HSNO Approval Number	None assigned.
HSNO Group Standard	None assigned.
HSNO Classification	Not classified.
Regulation according to other for	oreign laws
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 active or exempted.
Australia inventory (AIIC)	All components are listed or exempted.
Canada inventory status	All components are listed or exempted.
China inventory (IECSC)	At least one component is not listed.
Japan inventory (CSCL)	At least one component is not listed.
Korea inventory (KECI)	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.

## Section 16. Other information

#### **History**

Date of issue/Date of revision	7 May 2025
Date of previous issue	18 March 2025.
Version	2
Prepared by	Not available.

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## Section 16. Other information

Key to abbreviations

Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

#### Notice to reader

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

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