SAFETY DATA SHEET



Castrol Axle Limited Slip 85W-140

Section 1. Identification

Product name	Castrol Axle Limited Slip 85W-140
Product code	467365-AU22
SDS no.	467365
Use of the substance/mixture	Gear lubricant For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Product type	Liquid.
Supplier	Castrol New Zealand Limited 73 Remuera 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

9.1 - AQUATIC ECOTOXICITY - Category C

This material is 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.

Routes of entry	Dermal contact. Eye contact. Inhalation.
GHS label elements	
Signal word	No signal word.
Hazard statements	Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	Read label before use. Avoid release to the environment. Keep out of reach of children. If medical advice is needed: Have product container or label at hand.
Response	Not applicable.
Storage	Not applicable.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Symbol	¥2

Other hazards which do not result in classification

Defatting to the skin.

Section 3. Composition/information on ingredients

Substance/mixture

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

Mixture

Ingredient name	% (w/w)	CAS number
Residual oils (petroleum), solvent-dewaxed	≥30 - ≤60	64742-62-7
Residual oils (petroleum), hydrotreated	≥30 - ≤60	64742-57-0
Distillates (petroleum), hydrotreated heavy paraffinic	≥10 - ≤30	64742-54-7
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≥10 - ≤30	64742-65-0
Amines, C12-14-tert-alkyl	<1	68955-53-3
Alcohols, C12-16, ethoxylated	≤0.3	68551-12-2
(Z)-octadec-9-enylamine	≤0.3	112-90-3

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 aid measuresInhalationIf inhaled, remove to fresh air. Get medical attention if symptoms occur.IngestionDo 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 adverse
health effects persist or are severe.Skin contactWash skin thoroughly with soap and water or use recognised skin cleanser.
Remove contaminated clothing and shoes. Wash clothing before reuse. Clean

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

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Indication of immediate medical attention and special treatment needed, if necessary

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

Section 5. Firefighting measures

Extinguishing media	
Suitable	Use foam or all-purpose dry chemical to extinguish.
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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)
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 appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protectiv	ve equipment and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8). Contact emergency personnel.
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".
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. Collect spillage.
Methods and material for conta	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. 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 (see Section 13). Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Wash thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. See also Section 8 for additional information on hygiene measures.
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

<u>Control parameters</u> <u>Occupational exposure limits</u>

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Residual oils (petroleum), solvent-dewaxed	NZ HSWA 2015 - GRWM 2016 (New Zealand). WES-TWA: 5 mg/m ³ 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m ³ 15 minutes. Issued/ Revised: 9/2010 Form: Mist
Residual oils (petroleum), hydrotreated	NZ HSWA 2015 - GRWM 2016 (New Zealand). WES-TWA: 5 mg/m ³ 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m ³ 15 minutes. Issued/ Revised: 9/2010 Form: Mist
Distillates (petroleum), hydrotreated heavy paraffinic	NZ HSWA 2015 - GRWM 2016 (New Zealand). WES-TWA: 5 mg/m ³ 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m ³ 15 minutes. Issued/ Revised: 9/2010 Form: Mist
Distillates (petroleum), solvent-dewaxed heavy paraffinic	NZ HSWA 2015 - GRWM 2016 (New Zealand). WES-TWA: 5 mg/m ³ 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m ³ 15 minutes. Issued/ Revised: 9/2010 Form: Mist

Biological exposure indices

No exposure indices known.

 Appropriate engineering controls Provide exhaust ventilation or other engineering controls Provide exhaust ventilation or other engineering controls to keep the releval airborne concentrations below their respective occupational exposure limits activities involving chemicals should be assessed for their risks to health, to exposures are adequately controlled. Personal protective equipment should considered after other forms of control measures (e.g. engineering controls been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and pr maintained. Your supplier of personal protective equipment should be consulted for adv selection and appropriate standards. For further information contact your n organisation for standards. The final choice of protective equipment will de upon a risk assessment. It is important to ensure that all items of personal protective lequipment should be checked t they comply with the requirements of environmental protection legislation. I cases, fume scrubbers, filters or engineering modifications to the process 	nt All ensure only be have operly ce on
 controls airborne concentrations below their respective occupational exposure limits activities involving chemicals should be assessed for their risks to health, to exposures are adequately controlled. Personal protective equipment should considered after other forms of control measures (e.g. engineering controls been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and pr maintained. Your supplier of personal protective equipment should be consulted for adv selection and appropriate standards. For further information contact your n organisation for standards. The final choice of protective equipment will de upon a risk assessment. It is important to ensure that all items of personal pertochards. Emissions from ventilation or work process equipment should be checked to they comply with the requirements of environmental protection legislation. I cases, fume scrubbers, filters or engineering modifications to the process 	All ensure only be have operly ce on
controls they comply with the requirements of environmental protection legislation. I cases, fume scrubbers, filters or engineering modifications to the process	bend
equipment will be necessary to reduce emissions to acceptable levels.	
Individual protection measures	
Hygiene measures Wash hands, forearms and face thoroughly after handling chemical product eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminated Wash contaminated clothing before reusing. Ensure that eyewash stations safety showers are close to the workstation location.	clothing.
Eye protectionSafety glasses with side shields.	

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Section 8. Exposure controls/personal protection

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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.
Skin protection	Use of protective clothing is good industrial practice. 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. 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.
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. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716.

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	Amber.						
Odour	Strong.						
рН	Not available.						
Melting point/freezing point	Not available.						
Boiling point, initial boiling point, and boiling range	Not available.						
Drop Point	Not available.						
Flash point	Closed cup: 198°C (388.4°F) [Pensky-Martens] Open cup: >180°C (>356°F) [Cleveland]						
Auto-ignition temperature	Not available.						
Vapour pressure	Not available.						
		Vapou	ır Press	sure at 20°C	Vap	our pres	sure at 50°C
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Relative vapour density	Not available.						
Relative vapour density Density	Not available. <1000 kg/m³ (<1 g/c	;m³) at 15°	c				
		:m³) at 15°	с				
Density Solubility(ies)		/s (330 cS	it) at 40°		100°C		

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Section 10. Stability and reactivity

The product is stable.
Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Avoid all possible sources of ignition (spark or flame).
Reactive or incompatible with the following materials: oxidising materials.
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Inhalation Ingestion	No known significant effects or critical hazards.
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 physi	cal, 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.
Skin contact	Adverse symptoms may include the following: irritation dryness cracking
Eye contact	No specific data.
Potential chronic health effec	<u>ts</u>
General	No known significant effects or critical hazards.
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, cracking and/ or dermatitis.
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.
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	

(Z)-octadec-9-enylamine

Section 12. Ecological information

Ecotoxicity

This material is harmful to aquatic life with long lasting effects.

Persistence and degradability

Expected to be biodegradable.

Bioaccumulative potential

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

Product/ingredient name	LogPow	BCF	Potential
Amines, C12-14-tert-alkyl	2.9	-	low

Mobility in soil

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Section 12. Ecological information

Mobility	Spillages may penetrate the soil causing ground water contamination.
Soil/water partition coefficient (Koc)	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. 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. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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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

New Zealand Regulatory morn	
HSNO Approval Number	HSR002606
HSNO Group Standard	Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2020
HSNO Classification	9.1 - AQUATIC ECOTOXICITY - Category C
Regulation according to other f	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)	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.

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Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	18 August 2023
Date of previous issue	16 August 2023.
Version	1.04
Prepared by	Not available.
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.

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.

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