SAFETY DATA SHEET



Castrol Perfecto XEP 46 Superclean

Section 1. Identification

Product name	Castrol Perfecto XEP 46 Superclean
Product code	469427-AU24
SDS no.	469427
Use of the substance/mixture	Turbine Oil 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

REPRODUCTIVE TOXICITY - Category 2

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.

GHS label elements	
Signal word	Warning
Hazard statements	Suspected of damaging fertility or the unborn child.
Precautionary statements	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.
Response	IF exposed or concerned: Get medical attention.
Storage	Store locked up.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Symbol	

Other hazards which do not result in classification

Defatting to the skin.

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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
Distillates (petroleum), hydrotreated heavy paraffinic	≥90	64742-54-7
N-1-naphthylaniline	<0.25	90-30-2
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	≤0.3	68411-46-1

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 measures	
Inhalation	If inhaled, remove to fresh air. Get medical attention.	
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.	
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention. 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 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	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, CO ₂) (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 positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel 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".

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Section 6. Accidental release measures

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 conta	<u>inment and cleaning up</u>
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.

Section 7. Handling and storage

Precautions for safe handling	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.
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. Store locked up. 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

Contro	parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand). [Oil mineral] 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.

Recommended monitoring procedures

Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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Section 8. Exposure controls/personal protection

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Appropriate engineering controls	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. Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. 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.
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.
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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection	Safety glasses with side shields.
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	Appropriate footwear and any additional skin protection measures 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.

Section 9. Physical and chemical properties

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

Appearance	
Physical state	Liquid.
Colour	Yellow. [Light]
Odour	Not available.
рН	Not applicable.
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Drop Point	Not available.
Flash point	Open cup: >200°C (>392°F) [Cleveland ASTM D 92]
Auto-ignition temperature	Not available.

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Section 9. Physical and chemical properties

Flammability	Not available.							
Vapour pressure			Vapour Pressure at 20°C			Vapour pressure at 50°C		
	Ing	redient name	mm Hg kPa		Method	mm Hg	kPa	Method
	hydr	llates (petroleum), otreated heavy ffinic	<0.07501	<0.01	ASTM D 5191			
Relative vapour density	Not	available.					<u>.</u>	
Density	<1000 kg/m³ (<1 g/c			C				
Solubility(ies)								
Media		Result						
water		Not soluble						
Viscosity	Kinematic: 41.4 to 50.6 mm ² Kinematic: 7.1 mm ² /s (7.1 cs					10°C		
Particle characteristics			-					
Median particle size	Not applicable.							
Section 10. Stabilit	ty an	d reactivi	ty					
Chemical stability	The	product is stabl	e.					
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 route	es of exposure
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 p	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	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	Adverse symptoms may include the following: irritation dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	No specific data.
Potential chronic health	effects
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.

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Section 11. Toxicological information

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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 a 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	Suspected of damaging fertility.		

Section 12. Ecological information

Ecotoxicity

No known significant effects or critical hazards.

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
N-1-naphthylaniline Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	4.28 5.1	-	High High

<u>Mobility in soil</u>	
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

and non-recyclable products via a licensed waste disposal contractor. Disp this product, solutions and any by-products should at all times comply with t requirements of environmental protection and waste disposal legislation and regional local authority requirements. Waste packaging should be recycled Incineration or landfill should only be considered when recycling is not feasi material and its container must be disposed of in a safe way. Care should be when handling emptied containers that have not been cleaned or rinsed out containers or liners may retain some product residues. Avoid dispersal of s 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.	-	-	-		-

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Section 15. Regulatory information

New Zealand Regulatory Information HSNO Approval Number HSR002606 **HSNO Group Standard** Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2020 **REPRODUCTIVE TOXICITY - Category 2 HSNO Classification** Regulation according to other foreign laws **REACH Status** For the REACH status of this product please consult your company contact, as identified in Section 1. **United States inventory** All components are active or exempted. (TSCA 8b) 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** All components are listed or exempted. (PICCS) **Taiwan Chemical** All components are listed or exempted. Substances Inventory (TCSI)

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	9 October 2024
Date of previous issue	No previous validation.
Version	1
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.

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