SAFETY DATA SHEET



Castrol Power 1 Racing 2T

Section 1. Identification

Castrol Power 1 Racing 2T **Product name**

Product code 464618-AU22 SDS no. 464618

Use of the substance/mixture Lubricant for two-stroke engines.

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 FLAMMABLE LIQUIDS - Category 4

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.

Dermal contact. Eye contact. Inhalation. Routes of entry

GHS label elements

Signal word Warning

Combustible liquid. **Hazard statements**

Precautionary statements

Prevention Wear protective gloves, protective clothing, eye protection, face protection, or

hearing protection. Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Not applicable. Response **Storage** Not applicable.

Disposal Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Other hazards which do not

Defatting to the skin. result in classification

NOTE: Product diluted with petrol must be handled with the same precautions used for petrol. Before mixing, the Safety Data Sheet for petrol should be consulted for

any precautionary measures necessary.

Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Synthetic base stock. Solvent. Proprietary performance additives.

Ingredient name	% (w/w)	CAS number
Distillates (petroleum), hydrotreated light	≥10 - ≤30	64742-47-8
Distillates (petroleum), hydrotreated heavy paraffinic	≤5	64742-54-7

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Section 3. Composition/information on ingredients

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 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 adverse

health effects persist or are severe.

Skin contact $\overline{\mathcal{W}}$ ash skin thoroughly with soap and water or use recognised skin cleanser. Drench

> contaminated clothing with water before removing. This is necessary to avoid the risk of sparks from static electricity that could ignite contaminated clothing. Contaminated clothing is a fire hazard. Contaminated leather, particularly footwear, must be discarded. Remove contaminated clothing and shoes. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. If skin irritation

or rash occurs: Get medical advice/attention.

Eve 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 water fog, alcohol resistant foam, dry chemical or carbon dioxide

extinguisher or spray.

Not suitable Do not use water jet.

Specific hazards arising

from the chemical

Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may

create fire or explosion hazard.

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. Move containers from fire area if this can be done without risk. Use

water spray to keep fire-exposed containers cool.

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".

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".

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Section 6. Accidental release measures

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 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. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres.

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. Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilt product. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres. 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 contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container. NOTE: Product diluted with petrol must be handled with the same precautions used for petrol. Before mixing, the Safety Data Sheet for petrol should be consulted for any precautionary measures necessary.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidising materials. 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
vistillates (petroleum), hydrotreated light	ACGIH TLV (United States). [Kerosene] Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours. Issued/Revised: 1/2003
Distillates (petroleum), hydrotreated heavy paraffinic	HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand). [Oil mineral] WES-TWA: 5 mg/m³ 8 hours. Issued/ Revised: 6/2016 Form: Mist WES-STEL: 10 mg/m³ 15 minutes. Issued/ Revised: 9/2010 Form: Mist

Biological exposure indices

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Section 8. Exposure controls/personal protection

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.

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 Hand protection Safety glasses with side shields.

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 stateLiquid.ColourBlue.OdourMild.

pH Not applicable.

Melting point/freezing point Not available.

Boiling point, initial boiling point, and boiling range

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Section 9. Physical and chemical properties

Drop Point Not available.

Flash point Closed cup: >80°C (>176°F) [Pensky-Martens]

Auto-ignition temperature

Ingredient name	°C	°F	Method
Olybutene (Isobutylene/butene copolymer)	215	419	EU A.15
Distillates (petroleum), hydrotreated light	>220	>428	

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
butene (Isobutylene/butene copolymer)	5.10043	0.68		13.05111	1.7		
Distillates (petroleum), hydrotreated light		0.03 to 0.06					
Distillates (petroleum), hydrotreated heavy paraffinic	<0.07501	<0.01	ASTM D 5191				

Relative vapour density Not available.

<1000 kg/m³ (<1 g/cm³) at 15°C **Density**

Solubility(ies)

Media	Result
water	Not soluble

Viscosity Kinematic: 43 mm²/s (43 cSt) at 40°C

Kinematic: 6.8 to 8 mm²/s (6.8 to 8 cSt) at 100°C

Particle characteristics

Median particle size Not applicable.

Section 10. Stability and reactivity

Chemical stability The product is stable.

Possibility of hazardous Under normal conditions of storage and use, hazardous reactions will not occur. reactions

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 Under normal conditions of storage and use, hazardous decomposition products

products should not be produced.

Section 11. Toxicological information

Information on likely routes 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.

No known significant effects or critical hazards. **Eye contact** 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.

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Section 11. Toxicological information

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.

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.

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

Aspiration hazard

Name

Distillates (petroleum), hydrotreated light

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.

Mobility in soil

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. 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. 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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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

HSNO Approval Number HSR002602

HSNO Group Standard Lubricants (Combustible) Group Standard 2020

HSNO Classification FLAMMABLE LIQUIDS - Category 4

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

(TSCA 8b)

MI components are active or exempted.

Australia inventory (AIIC)

Canada inventory status

China inventory (IECSC)

Japan inventory (CSCL)

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory

(PICCS)

All components are listed or exempted.

Taiwan Chemical All components are listed or exempted.

Substances Inventory (TCSI)

Section 16. Other information

Date of issue 17 April 2024

History

Date of issue/Date of

17 April 2024

revision

Date of previous issue 18 August 2023.

Version

2

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,

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72623-87-1

Notice to reader

Version 2

▼ 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

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Section 16. Other information

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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