

MSDS Supplement to GHS MSDS: To comply with the Hazardous Substance and New Organisms Act, this coversheet offers New Zealand specific information. This page "0" is to be considered part of the MSDS.

Product Name & Company Identification:		
Trade Name:	Date of Issue:	
TRIBOL WR 4600	29 th Oct 2021	

Page 0 of 10

Emergency Contact:	AUCKLAND 2013 Ph: +64 9 274 0159 National Poisons Centre - New Zealand 0800 764 766
Company Name:	INDUSTRIAL LUBRICANTS & SERVICES LTD 1/15 ACCENT DRIVE EAST TAMAKI

Hazards Identification:

UN1993 - CLASS 3 - HAZCHEM CODE 3Y

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012. Transport of Dangerous Goods on Land.

Other Information:	
HSN (Tariff Code)	2710.12.59 19B
Shelf Life	5 Years

SAFETY DATA SHEET



Tribol WR 4600

Section 1. Identification

GHS product identifier Tribol WR 4600
Product code 468438-AU15
SDS no. 468438

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/ Lubricant

mixture For specific application advice see appropriate Technical Data Sheet or consult our

company representative.

Manufacturer

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

EMERGENCY TELEPHONE

NUMBER

+61 2801 44558 (or 1800 14 14 74 within Australia)

OTHER PRODUCT INFORMATION

Technical Advice Helpline Number: 1300 557 998

Section 2. Hazard(s) identification

Classification of the FLAMMABLE LIQUIDS - Category 3

substance or mixture SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) -

Category 3

GHS label elements

Hazard pictograms





Signal word WARNING

Hazard statements H226 - Flammable liquid and vapour.

H336 - May cause drowsiness or dizziness.

Precautionary statements

Prevention P280 - Wear protective gloves. Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling

equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P233 - Keep container tightly closed.

P271 - Use only outdoors or in a well-ventilated area.

P261 - Avoid breathing vapour.

Response P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Call a POISON CENTER or physician if you feel

unwell.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

Product name Tribol WR 4600 Product code 468438-AU15 Page: 1/10

Version 3 Date of issue 10/29/2019 Format Australia Language ENGLISH

Section 2. Hazard(s) identification

Storage P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

Disposal P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Supplemental label

elements

Not applicable.

Other hazards which do not result in classification

Defatting to the skin.

Section 3. Composition and ingredient information

Substance/mixture

Mixture

Hydrocarbon solvent, film forming corrosion preventives and additives

Ingredient name	% (w/w)	CAS number
Maphtha (petroleum), hydrotreated heavy	≥30 - ≤60	64742-48-9

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 aid measures

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.

Inhalation If exposure to vapour, mists

or fumes causes drowsiness, headache, blurred vision or irritation of the eyes, nose or throat, remove immediately to fresh air. Keep patient warm and at rest. If any

symptoms persist obtain medical advice.

Skin contact Wash 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.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. If

unconscious, place in recovery position and get medical attention immediately.

Aspiration hazard if swallowed. Can enter lungs and cause damage. Get medical

attention.

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

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.

Specific treatments No specific treatment.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation.

Product name Tribol WR 4600 Product code 468438-AU15 Page: 2/10

Version 3 Date of issue 10/29/2019 Format Australia Language ENGLISH

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Use dry chemical, CO₂, water spray (fog) or foam.

Do not use water jet.

Specific hazards arising from the chemical

Flammable liquid and vapour. 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 thermal decomposition products

Combustion products may include the following:

carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

Special protective actions 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. Fire-fighters' protective clothing will only provide limited protection.

Hazchem code •3Y

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Immediately contact 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. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. Eliminate all ignition sources.

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).

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.

Product name Tribol WR 4600 Product code 468438-AU15 Page: 3/10

Version 3 Date of issue 10/29/2019 Format Australia Language ENGLISH

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Fut on appropriate personal protective equipment (see Section 8). Do not ingest. Aspiration hazard if swallowed. Can enter lungs and cause damage. 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. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid prolonged or repeated contact with skin. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. The presence of certain metals in the workpiece or tool, such as chromium, cobalt and nickel, can contaminate the metalworking fluid and as a result may induce allergic skin reactions. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Concentrations of mist, fumes and vapours in enclosed spaces may result in the formation of explosive atmospheres. Excessive splashing, agitation or heating must be avoided.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. 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 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. Store locked up. 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 and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Maphtha (petroleum), hydrotreated heavy	DFG MAC-values list (Germany). TWA: 50 ppm 8 hours. Issued/Revised: 7/2009 TWA: 300 mg/m³ 8 hours. Issued/Revised: 7/2009 PEAK: 100 ppm, 4 times per shift, 15 minutes. Issued/Revised: 7/2009 PEAK: 600 mg/m³, 4 times per shift, 15 minutes. Issued/Revised: 7/2009

Product name Tribol WR 4600

Version 3

Date of issue 10/29/2019

Product code 468438-AU15

Format Australia Language ENGLISH

(Australia)

(ENGLISH)

Page: 4/10

Section 8. Exposure controls and personal protection

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/face protection Skin protection Hand protection

Safety glasses with side shields.

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.

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.

Wear clothing and footwear that cannot be penetrated by chemicals or oil. 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.

Other 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

Use with adequate ventilation.

In case of insufficient ventilation, wear suitable respiratory equipment. Recommended: half-face mask - organic vapor filter (Type A).

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.

Refer to standards:

Respiratory protection: AS/NZS 1715 and AS/NZS 1716

Gloves: AS/NZS 2161.1

Eye protection: AS/NZS 1336 and AS/NZS 1337

Product name Tribol WR 4600 Product code 468438-AU15 Page: 5/10

Version 3 Date of issue 10/29/2019 Format Australia Language ENGLISH

Section 9. Physical and chemical properties

Appearance

Physical state Liquid. Colour Colourless. Odour Not available. **Odour threshold** Not available. pН Not available. **Melting point** Not available. **Boiling point** Not available.

Closed cup: 40°C (104°F) [Pensky-Martens.] Flash point

Evaporation rate Not available.

Flammability (solid, gas) Not applicable. Based on - Physical state

Lower and upper explosive

(flammable) limits

Not available.

Vapour pressure Not available. Vapour density Not available. Relative density Not available.

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

insoluble in water. Solubility Partition coefficient: n-

octanol/water

Not available.

Not available. **Auto-ignition temperature Decomposition temperature** Not available.

Viscosity Kinematic: 24 mm²/s (24 cSt) at 40°C

Section 10. Stability and reactivity

Reactivity No specific test data available for this product. Refer to Conditions to avoid and

Incompatible materials for additional information.

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.

Under normal conditions of storage and use, hazardous decomposition products **Hazardous decomposition**

products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Specific target organ toxicity (single exposure)

Name Route of **Target organs** Category

exposure

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, Narcotic effects Category 3 Not applicable.

<2% aromatics

Aspiration hazard

Name Result

√ydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics ASPIRATION HAZARD - Category 1

Product name Tribol WR 4600 Product code 468438-AU15 Page: 6/10

Version 3 Date of issue 10/29/2019 **Format Australia** Language ENGLISH

Section 11. Toxicological information

Information on likely routes

of exposure

Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact No known significant effects or critical hazards.

Inhalation Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact Defatting to the skin. May cause skin dryness and irritation.

Ingestion Aspiration hazard if swallowed -- harmful or fatal if liquid is aspirated into lungs.

Ingestion of large quantities may cause nausea and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact No specific data.

Inhalation Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Exposure to high concentrations can cause dizziness, lightheadedness, headache,

nausea and blurred vision. Higher levels may cause unconsciousness.

May be harmful by inhalation if exposure to vapour, mists or fumes resulting from

thermal decomposition products occurs.

Skin contact Adverse symptoms may include the following:

irritation dryness cracking

Ingestion No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Section 12. Ecological information

Persistence and degradability

Partially biodegradable.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition Not available.

coefficient (Koc)

Mobility Volatile. Liquid. insoluble in water.

Product name Tribol WR 4600 Product code 468438-AU15 Page: 7/10

Version 3 Date of issue 10/29/2019 Format Australia Language ENGLISH

Section 12. Ecological information

Other adverse effects

No known significant effects or critical hazards.

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.

Special Precautions for Landfill or Incineration No additional special precautions identified.

Section 14. Transport information

	ADG	IMDG	IATA
UN number	UN1993	UN1993	UN1993
UN proper shipping name	Flammable liquid, n.o.s. (Naphtha (petroleum), hydrotreated heavy)	Flammable liquid, n.o.s. (Naphtha (petroleum), hydrotreated heavy)	Flammable liquid, n.o.s. (Naphtha (petroleum), hydrotreated heavy)
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Additional information	Fazchem code •3Y Initial emergency response guide 14	Emergency schedules F-E, S-E	-

Special precautions for user Not available.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

Montreal Protocol (Annexes A, B, C, E)

Product name Tribol WR 4600 Product code 468438-AU15 Page: 8/10

Version 3 Date of issue 10/29/2019 Format Australia Language ENGLISH

(Australia)

(ENGLISH)

Section 15. Regulatory information

Ingredient name
Not listed.

List name
Status

Stockholm Convention on Persistent Organic Pollutants

Ingredient name
Not listed.

List name
Status

Rotterdam Convention on Prior Informed Consent (PIC)

Ingredient name
Not listed.

List name
Status

International lists
National inventory

REACH StatusThe company, as identified in Section 1, sells this product in the EU in compliance

with the current requirements of REACH.

Australia inventory (AICS)

All components are listed or exempted.

Canada inventory

China inventory (IECSC)

Japan inventory (ENCS)

Korea inventory (KECI)

Philippines inventory

All components are listed or exempted.

(PICCS)

Taiwan Chemical Substances Inventory

(TCSI)

United States inventory

(TSCA 8b)

All components are listed or exempted.

Not determined.

Section 16. Any other relevant information

History

Date of printing 10/29/2019
Date of issue/Date of 10/29/2019

revision

Date of previous issue 11/22/2016

Version 3

Prepared by Product Stewardship

Key to abbreviations ADG = Australian Dangerous Goods

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NOHSC = National Occupational Health and Safety Commission

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

Regulation [Regulation (EC) No. 1907/2006]

STEL = Short term exposure limit

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

TWA = Time weighted average

Product name Tribol WR 4600 Product code 468438-AU15 Page: 9/10

Version 3 Date of issue 10/29/2019 Format Australia Language ENGLISH

Section 16. Any other relevant information

VOC = Volatile Organic Compound SADT = Self-Accelerating Decomposition Temperature 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

Procedure used to derive the classification

Classification	Justification
1 - /	On basis of test data Calculation method

[▼] Indicates information that has changed from previously issued version.

Notice to reader

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.

Product name Tribol WR 4600 Product code 468438-AU15 Page: 10/10

Version 3 Date of issue 10/29/2019 Format Australia Language ENGLISH (Australia) (ENGLISH)