

BRAKE PARTS CLEANER

MATERIAL SAFETY DATA SHEET

MSDS No: Product Name: Manufacturers Code: Date:	BRAKE PARTS CLEANER BC5, BC20 June 2018	QUICK SMART PRODUCTS 53 ASSEMBLY DRIVE TULLAMARINE VIC 3043 ABN: 40 959 725 049 Ph: (03) 9338 6655 (BH) Fax: (03) 9335 2598 Email: gsmart@bigpond.net.au Web: www.quicksmartproducts.com.au
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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	BRAKE PARTS CLEANER
Company Name	QUICK SMART PRODUCTS
Address	53 Assembly Drive Tullamarine Vic 3043
Telephone/Fax	(03) 9338 6655 (BH) Poisons Information Centre 131126 (AH) Fax: (03) 9335 2598
Recommended Use	Brake Parts Cleaner. Removes brake fluid, grease, oil and other contaminants from brake linings, pads, drums and callipers.

2. HAZARDS IDENTIFICATION

Hazard Classification This product is classified as hazardous according to the criteria of Safe Work Australia. Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Hazard Categories
 Carcinogenicity: Category 1B
 Germ Cell Mutagenicity: Category 2
 Eye Irritation: Category 2A
 Skin Irritation: Category 2
 Specific Target Organ Toxicity (Single Exposure): Category 3
 Hazardous to the Aquatic Environment (Chronic): Category 2

GHS Label Elements

Signal Word DANGER

Symbol(s)



Hazard Statements

H304:	May be fatal if swallowed and enters airways
H315:	Causes skin irritation
H319:	Causes serious eye irritation
H336:	May cause drowsiness or dizziness
H341:	Suspected of causing genetic defects.
H350:	May cause cancer
H411:	Toxic to aquatic life with long-lasting effects

Precautionary Statements

General	P101: If medical advice is needed, have product container or label at hand
	P102: Keep out of reach of children
	P103: Read label before use
Prevention	P260: Do not breath dust/fumes/gas/mist/vapours/spray
	P264: Wash hands thoroughly after handling
	P271: Use only outdoors or in a well-ventilated area
	P280: Wear protective gloves, eye protection and face protection
Response	P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician
	P303+P361+P353: If ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

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P304+P340+P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or Physician if you feel unwell

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P331: Do NOT induce vomiting

P332+P313: If skin irritation occurs: Get medical advice/attention

P337+P313: If eye irritation occurs: Get medical advice/attention

P362: Take off contaminated clothing and wash before reuse

Storage P403+P233: Store in a well ventilated place. Keep container tightly closed
 P405: Store locked up

Disposal P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	W%W	CAS No
Trichloroethylene	>60	79-01-6
Tetrachloroethylene (Perchloroethylene)	30-60	127-18-4

4. FIRST AID MEASURES

Poison Information Centres (131126) in each State Capital City can provide additional assistance for scheduled poisons.

Ingestion If swallowed DO NOT induce vomiting. Rinse mouth with water. Seek immediate medical assistance. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees.

Eye Contact Hold eyelid open and flush the eye continuously with running clean water. Continue flushing until advised to stop by a Poisons Information Centre (13 11 26) or a doctor, or for at least 15 minutes. Seek medical advice.

Skin Contact If skin or hair contact occurs, remove contaminated clothing and flush skin and hair thoroughly with clean running water for approx 3-5 minutes, followed by washing gently with soap and water for a further 5 minutes. If swelling, redness, blistering or irritation occurs seek medical assistance.

Inhalation Remove the source of contamination and move the affected person to fresh air if safe to do so. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. If the victim is not breathing, apply artificial resuscitation and seek urgent medical attention. In serious cases of over-exposure, seek immediate medical attention.

First Aid Facilities Provide normal industrial first aid facilities including eye wash stations and safety showers as appropriate.

Advice to Doctor Contains Tetrachlorethylene. Treat symptomatically. Rapid absorption may occur through lungs. The decision whether to induce vomiting should be made by attending doctor. Danger from lung aspiration must be weighed against toxicity.

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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).
Unsuitable Extinguishing Media	High pressure waterjet.
Hazards from Combustion Products	Carbon dioxide, carbon monoxide, complex hydrocarbons, hydrogen chloride and phosgene gas may be formed on combustion. Fire may produce irritating or poisonous gases. Heating can cause expansion or decomposition of the material which can lead to the containers exploding.
Protective Equipment for Fire Fighters	Fire Fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing if risk of exposure to products of decomposition.
Specific Hazards	Non combustible material. Vapour concentrations of 12.5%-90% v/v between 30°C and 82°C may ignite if in contact with high temperature heat sources. Vapour may ignite above 25.5°C if mixed with pure oxygen (10.3%-64.5% v/v). Certain mixtures in air can ignite with high intensity sources of heat, such as welding arcs, sparks and flames or at high temperatures and pressures. Welding or cutting should not be carried out on any vessel likely to contain solvent.
Hazchem Code	2X

6. ACCIDENTAL RELEASE MEASURE

General Response Procedure	Spillages are slippery. Avoid accidents, clean up immediately. Clear area of all unprotected personnel. Work up wind or increase ventilation. Personnel involved in cleaning up any spills are to wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Cordon off the spillage area. Isolate the source of the spillage or leak.
Environmental Precautionary Measures	Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterways by using sand, earth or inert material. Advise local authorities immediately if release into sewer and/or waterways is expected to have occurred.
Spills	Cordon off the spillage area. Isolate the source of the spillage or leak if safe to do so. Contain using sand, soil or other inert material. Prevent run off into drains, sewers and waterways. Cover/absorb spill with non-combustible absorbent material (vermiculite, sand or similar), collect and seal in properly labelled containers for disposal. Rinse the area clean with excess water.
Disposal	Dispose of waste in accordance to Federal, EPA, State and Local Regulations. Disposal into sewer system is not permitted.

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7. HANDLING AND STORAGE

Safe Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapour mists. Repeated or prolonged exposure to the material without personal protection should be avoided in order to lessen the possibility of disorders. Maintain good standards of personal hygiene after handling this product i.e. washing hands prior to eating, drinking, smoking or using the toilet facilities. Keep containers closed when not in use.
Safe Storage	This material is a scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations. Store in a cool, dry, well ventilated place out of direct sunlight and away from ignition sources, oxidising agents, foodstuffs and clothing. Do not store in unlabelled containers. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks.

8. EXPOSURE CONTROL

Occupational Exposure Limits	No exposure standards have been established for this product. Established for ingredient:															
	<table><thead><tr><th></th><th colspan="2">TWA</th><th colspan="2">STEL</th></tr></thead><tbody><tr><td>Tetrachloroethylene (Perchloroethylene)</td><td>50ppm</td><td>340mg/m³</td><td>150ppm</td><td>1020mg/m³</td></tr><tr><td>Trichloroethylene</td><td>10ppm</td><td>54mg/m³</td><td>-</td><td>216mg/m³</td></tr></tbody></table>		TWA		STEL		Tetrachloroethylene (Perchloroethylene)	50ppm	340mg/m ³	150ppm	1020mg/m ³	Trichloroethylene	10ppm	54mg/m ³	-	216mg/m ³
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Biological Limit	No biological limit allocated.															
Engineering Controls	Avoid inhalation. Use in well ventilated areas and ensure ventilation is adequate to maintain air concentrations below the recommended exposure standard. Where an inhalation risk exists, mechanical extraction ventilation is recommended.															
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.															
Eye Protection	Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standards AS/NZS 1337 – Eye Protectors for Industrial Applications.															
Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1 – Occupational Protective Gloves – Selection, Use and Maintenance.															
Body Protection	Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant plastic apron is recommended where large quantities are handled.															

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Odour	Ethereal
Autoignition Temp	N/A
Flash Point (°C)	None
Boiling Point (°C)	86°C
Flammability Limits (%)	Vapour concentrates of 12.5%-90% v/v between 30°C & 82°C may ignite if in contact with high temperature ignition sources.
Vapour Pressure	6.4kPa @ 20°C
Solubility in Water	Slightly soluble in water, miscible with most organic solvents.
Specific Gravity	1.51 @ 20°C
Vapour Density	Heavier than air
Evaporation Rate	Fast
Percent Volatiles	100%

10. STABILITY AND REACTIVITY

Stability	Under normal conditions of use at normal temperatures and pressure the product is stable.
Conditions to Avoid	Avoid sources of ignition, heat, open flames or direct sunlight.
Incompatible Materials	Incompatible with oxidising agents, acids, alkalis, hot metals, heat and ignition sources.
Hazardous Decomposition Products	Thermal decomposition and combustion may produce noxious fumes such as oxides of carbon, hydrogen chloride and phosgene gas.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Toxic – irritant. This product has the potential to cause adverse health effects if not handled in accordance with this Safety Data Sheet and the product label. Use safe work practices to avoid eye or skin contact and inhalation. Over exposure may result in central nervous system (CNS), liver and kidney damage. Tetrachlorethylene is classified as probably carcinogenic to humans (IARC Group 2A).
Ingestion	Toxic. Ingestion may result in nausea, vomiting, abdominal pain, dizziness, fatigue and diarrhoea. Ingestion of large quantities may result in liver and kidney damage and unconsciousness. Aspiration may result in chemical pneumonitis and pulmonary oedema.
Inhalation	Toxic – irritant. Over exposure may result in irritation of the nose and throat, coughing, nausea, dizziness and headache. High level exposure may result in breathing difficulties, cardiac arrhythmias, pulmonary oedema, unconsciousness and possible respiratory failure. Chronic exposure may result in kidney, liver and CNS damage.
Eye	Irritant. Contact may result in irritation, lacrimation, pain, redness and conjunctivitis. May result in burns with prolonged contact.

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Skin Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis.

Toxicity Data Tetrachloroethylene (Perchloroethylene) (127-18-4)
LCLo (Inhalation): 4000 ppm/4 hour (rat)
LD50 (Ingestion): 2629 mg/kg (rat)
LD50 (Intraperitoneal): 2100 mg/kg (dog)
LD50 (Skin): 65 gm/kg (mouse)
LDLo (Ingestion): 4000 mg/kg (dog)
LDLo (Subcutaneous): 2200 mg/kg (rabbit)
TDLo (Ingestion): 195 g/kg/50 weeks intermittent (mouse – cancer)

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic organisms.

Persistence / Degradability May have long term adverse effects in the aquatic environment.

Mobility Not available.

Environmental Protection Avoid contaminating waterways. Spills on water may form a film causing physical damage to organisms, oxygen transfer could also be impaired. Do not discharge the product into sewers or any body of waterway.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Waste product should be placed in sealed, properly labelled containers for disposal. Dispose of waste according to Federal, EPA, State and Local Regulations. Assure conformity with all applicable regulations.

14. TRANSPORT INFORMATION



Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)

UN Number 2810

Shipping Name Toxic Liquid, Organic, N.O.S.
(Tetrachloroethylene, Trichloroethylene)

DG Class 6.1

Packaging Group III

Hazchem Code 2X

15. REGULATORY INFORMATION

SUSMP Schedule Schedule 6

AICS (Australia) To the manufacturers best knowledge, all ingredients are listed in the Australian Inventory of Chemical Substances (AICS)

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16. OTHER INFORMATION

Contact Person/Point Technical Information: (03) 9338 6655.

Date of Preparation or last revision of SDS SDS reviewed: 21 June 2018

Abbreviations

ADG Code	Australian Code for the Transport of Dangerous Goods by Road & Rail
AICS	Australian Inventory of Chemical Substances
CAS Number	Chemical Abstracts Service Registry Number
GHS	Globally Harmonised System of Classification and Labelling
g/cm³	Grams per Cubic Centimetre
g/L	Grams per Litre
HAZCHEM Code	Emergency action code of numbers and letters which gives information to emergency services
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC	Lethal Concentration
LD	Lethal Dose
mg/m³	Milligrams per Cubic Metre
NOHSC	National Occupational Health and Safety Commission
ppm	Parts Per Million
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit. The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
TLV	Threshold Limit Value
TWA	Time Weighted Average. The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled in the workplace and in conjunction with other materials. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Company accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, or from any failure to adhere to recommendations. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

END OF SDS