

BRAKE PARTS CLEANER

MATERIAL SAFETY DATA SHEET

MSDS No: Product Name: Manufacturers Code: Date:	BRAKE PARTS CLEANER BC5, BC20 September 2013	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

Statement of Hazardous/Dangerous Nature:	HAZARDOUS SUBSTANCE DANGEROUS GOODS Classified as Hazardous according to the criteria of NOHSC Australia. Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)
Risk Phrases:	R36/38 Irritating to eyes and skin. R45 May cause cancer. R51/53 Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. R65 May cause lung damage if swallowed. R66 Repeated exposure may cause drying and cracking of the skin. R67 Vapours may cause dizziness and drowsiness. R68 Possible risk of irreversible effects.
Safety Phrases:	S2 Keep out of reach of children. S23 Do not breathe vapour. S36/37 Wear suitable protective clothing and gloves. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S53 Avoid exposure. S61 Avoid release to the environment.

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.
Eye:	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. If symptoms persist, seek prompt medical attention.

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Skin:	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.
Inhaled:	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.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).
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 MEASURES:

Spills:	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. Contain using sand, soil or other inert material. Prevent run off into drains, sewers and waterways. Advise local authorities immediately if release into sewer and/or waterways is expected to have occurred. 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

- 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.
- 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. 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:

	TWA		STEL	
Tetrachloroethylene (Perchloroethylene)	50ppm	340mg/m ³	150ppm	1020mg/m ³
Trichloroethylene	10ppm	54mg/m ³	-	216mg/m ³

- 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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Date:	September 2013	

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.

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Eye: Irritant. Contact may result in irritation, lacrimation, pain, redness and conjunctivitis. May result in burns with prolonged contact.

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

UN Number: 2810
Shipping Name: Toxic Liquid, Organic, N.O.S.
DG Class: 6.1
Packaging Group: 111
Hazchem Code: 2X

15. REGULATORY INFORMATION

Poisons Schedule: Schedule 6

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

16. OTHER INFORMATION

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

Date of Preparation or last revision of MSDS: MSDS reviewed: 30 September 2013

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Product Name:	BRAKE PARTS CLEANER	53 ASSEMBLY DRIVE
Manufacturers Code:	BC5, BC20	TULLAMARINE VIC 3043
Date:	September 2013	ABN: 40 959 725 049
		Ph: (03) 9338 6655 (BH) Fax: (03) 9335 2598
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This MSDS 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 MSDS in the context of how the product will be handled in the workplace and in conjunction with other materials. 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 MSDS