

# ELECTRIC MOTOR CLEANER

## MATERIAL SAFETY DATA SHEET

MSDS No:		<b>QUICK SMART PRODUCTS</b>
Product Name:	ELECTRIC MOTOR & EQUIPMENT CLEANER	<b>53 ASSEMBLY DRIVE</b>
Manufacturers Code:	EMC5, EMC20, EMC205	<b>TULLAMARINE VIC 3043</b>
Date:	September 2018	ABN: 40 959 725 049
		Ph: (03) 9338 6655 (BH) Fax: (03) 9335 2598
		Email: <a href="mailto:gsmart@bigpond.net.au">gsmart@bigpond.net.au</a>
		Web: <a href="http://www.quicksmartproducts.com.au">www.quicksmartproducts.com.au</a>

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	ELECTRIC MOTOR & EQUIPMENT CLEANER
<b>Company Name</b>	QUICK SMART PRODUCTS
<b>Address</b>	53 Assembly Drive Tullamarine Vic 3043
<b>Telephone/Fax</b>	(03) 9338 6655 (BH) Poisons Information Centre 131126 (AH) Fax: (03) 9335 2598
<b>Recommended Use</b>	Cleaner and degreaser for removing moisture, grease, oil, wax, dirt and other contaminants from motors, parts and other electrical/mechanical equipment.

### 2. HAZARDS IDENTIFICATION

<b>Statement of Hazardous Nature</b>	Hazardous chemical according to classification by Safe Work Australia.
<b>Dangerous Goods</b>	Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
<b>GHS Classification</b>	
<b>Hazard Categories</b>	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

**Symbols**



<b>Hazard Statements</b>	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.

#### Precautionary Statements

<b>General</b>	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.
<b>Prevention</b>	P260: Do not breathe mist or vapour.
	P262: Do not get in eyes, on skin, or on clothing.
	P264: Wash thoroughly after handling.
	P273: Avoid release to the environment.
	P280: Wear protective gloves/protective clothing/eye protection/face protection.

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<b>Response</b>	P301+P310: P302+P352: P304+P340: P305+351+P338: P331 P332+P313: P337+P313: P362: P391:	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. If ON SKIN: Wash with plenty of water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do NOT induce vomiting If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse Collect spillage.
<b>Storage</b>	P405:	Store locked up.
<b>Disposal</b>	P501:	Dispose of contents/container in accordance with local/regional/national 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.

<b>Inhalation</b>	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.
<b>Ingestion</b>	If swallowed DO NOT induce vomiting. Rinse mouth with water. Seek immediate medical assistance.
<b>Eye Contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Skin Contact</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek immediate medical assistance.
<b>First Aid Facilities</b>	Potable water should be available to rinse eyes or skin. Provide safety showers and eye wash facilities.
<b>Advice to Doctor</b>	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

<b>General Measures</b>	Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
<b>Suitable Extinguishing Media</b>	If material is involved in a fire use: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).
<b>Hazards from Combustion Products</b>	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.
<b>Protective Equipment for Fire Fighters</b>	Fire Fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing if risk of exposure to products of decomposition.
<b>Specific Hazards</b>	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.
<b>Hazchem Code</b>	2X

### 6. ACCIDENTAL RELEASE MEASURES

<b>Spills</b>	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.
<b>Disposal</b>	Dispose of in accordance to Federal, EPA, State and Local Regulations. Disposal into sewer system is not permitted.

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### 7. HANDLING AND STORAGE

<b>Handling</b>	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 using this product i.e. washing hands prior to eating, drinking, smoking or using the toilet facilities. Keep containers closed when not in use.
<b>Storage</b>	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

<b>Occupational Exposure Limits</b>	No exposure standards have been established for this product. Established for ingredients:			
		<b>TWA</b>		<b>STEL</b>
	Tetrachloroethylene (Perchloroethylene)	50ppm	340mg/m <sup>3</sup>	150ppm 1020mg/m <sup>3</sup>
	Trichloroethylene	10ppm	54mg/m <sup>3</sup>	40ppm 216mg/m <sup>3</sup>
<b>Biological Limit</b>	No biological limit allocated.			
<b>Engineering Controls</b>	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.			
<b>Respiratory Protection</b>	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.			
<b>Eye Protection</b>	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.			
<b>Hand Protection</b>	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.			
<b>Body Protection</b>	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

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

### 10. STABILITY AND REACTIVITY

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

### 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and over exposure occurs are:

<b>Health Hazard Summary</b>	Harmful - 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 depression which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged unconsciousness. Breathing in high concentrations may result in an irregular heartbeat and prove suddenly fatal.
<b>Ingestion</b>	Ingestion may result in nausea, vomiting and central nervous system depression. Aspiration may result in damage to the lungs.

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<b>Inhalation</b>	May be an irritant to the mucous membranes of the respiratory tract (airways). Breathing in vapours can result in headaches, dizziness, drowsiness and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness. Breathing in high concentrations may result in an irregular heartbeat and prove suddenly fatal.
<b>Eye</b>	Irritant. Contact may result in irritation, tearing, pain and redness.
<b>Skin</b>	Irritant. Contact may result in a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.
<b>Acute Toxicity</b>	Tetrachloroethylene (Perchloroethylene) (127-18-4) Oral/LD50 (rat): 4920mg/kg Oral/LD50 (mice): 2402mg/kg
<b>Skin Corrosion/ Irritation</b>	Irritant (rabbit)
<b>Serious Eye Damage/ Irritation</b>	Irritant (rabbit)
<b>Chronic Effects</b>	May cause cancer. Suspected of causing genetic defects.

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Toxic to aquatic organisms.
<b>Persistence/ Degradability</b>	May have long term adverse effects in the aquatic environment.
<b>Mobility</b>	Not available.
<b>Ecotoxicity</b>	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.
<b>Aquatic Toxicity</b>	Harmful to aquatic life with long lasting effects.

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal Considerations</b>	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.
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### 14. TRANSPORT INFORMATION



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

<b>UN Number</b>	2810
<b>Proper Shipping Name</b>	TOXIC LIQUID, ORGANIC, N.O.S. (Tetrachloroethylene, Trichlorethylene)
<b>Class or Division</b>	6.1



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<b>Packing Group</b>	III
<b>Hazchem Code</b>	2X
<b>Emergency Information</b>	Refer to the Dangerous Goods - Initial Emergency Response Guide HB 76.

### 15. REGULATORY INFORMATION

<b>SUSMP Schedule</b>	6
<b>AICS (Australia)</b>	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 SDS** SDS reviewed: 3 September 2018

#### Abbreviations

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road & Rail
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>CAS Number</b>	Chemical Abstracts Service Registry Number
<b>GHS</b>	Globally Harmonised System of Classification and Labelling
<b>g/cm<sup>3</sup></b>	Grams per Cubic Centimetre
<b>g/L</b>	Grams per Litre
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters which gives information to emergency services
<b>IATA</b>	International Air Transport Association
<b>IMDG</b>	International Maritime Dangerous Goods
<b>LC</b>	Lethal Concentration
<b>LD</b>	Lethal Dose
<b>mg/m<sup>3</sup></b>	Milligrams per Cubic Metre
<b>NOHSC</b>	National Occupational Health and Safety Commission
<b>ppm</b>	Parts Per Million
<b>SDS</b>	Safety Data Sheet
<b>STEL</b>	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.
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons
<b>TLV</b>	Threshold Limit Value
<b>TWA</b>	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