

# KOOL-IT RADIATOR CONCENTRATE

## MATERIAL SAFETY DATA SHEET

MSDS No:		<b>QUICK SMART PRODUCTS</b>
Product Name:	KOOL-IT RADIATOR CONCENTRATE	<b>53 ASSEMBLY DRIVE</b>
Manufacturers Code:	COOL1, COOL5, COOL20, COOL204	<b>TULLAMARINE VIC 3043</b>
Date:	December 2012	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>	COOLANT PRE-MIXED RADIATOR FLUID
<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>	Automotive Radiator Coolant

### 2. HAZARDS IDENTIFICATION

<b>Statement of Hazardous/Dangerous Nature:</b>	HAZARDOUS SUBSTANCE NON-DANGEROUS GOODS Classified as Hazardous according to the criteria of NOHSC Australia. Classified as Non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)
<b>Risk Phrases:</b>	R22 Harmful if swallowed
<b>Safety Phrases:</b>	S2 Keep out of reach of children S24/25 Avoid contact with skin and eyes

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	Name	Proportion	CAS	UN No
	Ethylene Glycol	VHigh	107-21-1	-
	Corrosion Inhibitors	Low	-	-
	Antifoam	VLow	-	-
	Denatonium Benzoate*	VLow	3734-33-6	-
	Dyestuff	<u>VLow</u>	-	-
		100%		

Proportion (% weight per weight)

VHigh >60, High 30 – 60, Med 10 – 29, Low 1 – 9, VLow <1

\*Actual content at 10ppm

### 4. FIRST AID MEASURES

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

**Inhalation:** Remove the source of contamination and move the affected person to fresh air. 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. In serious cases of over-exposure, seek immediate medical attention.

**Ingestion:** Immediately rinse out mouth and lips with water. Give plenty of water to drink. If more than 15 minutes from a hospital induce vomiting using fingers in the throat or Ipecac Syrup APF. Seek immediate medical attention.

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- Eye:** Hold eyelid open and flush with copious amounts of water for at least 15 minutes or until all contaminants are washed out completely. Seek immediate medical attention.
- Skin:** Remove contaminated clothing and launder before re-use. Wash contaminated skin with copious amounts of water. If irritation develops seek medical attention.
- First Aid Facilities:** Normal washroom facilities are generally suitable. It is recommended that an eyewash station be available and ready for use.
- Advice to Doctor:** Treat symptomatically. Early diagnosis and treatment of ingestion is important.

### 5. FIRE FIGHTING MEASURES

- Suitable Extinguishing Media:** Water fog, (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).
- Protective Equipment for Fire Fighters:** Fire Fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing if risk of exposure to vapour or products of combustion.
- Specific Hazards:** Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide. Store away from acids and oxidising agents.

### 6. ACCIDENTAL RELEASE MEASURES:

- Spills:** Spillages are slippery. Avoid accidents, clean up immediately. 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 and collect using an absorbent material (sand or soil, inert material, vermiculite). Prevent run off into drains and waterways. Collect and seal in properly labelled containers for disposal. Rinse the area clean with detergent and water.
- Disposal:** Dispose of in accordance to Federal, EPA, State and Local Regulations. Disposal into sewer system is not permitted.

### 7. HANDLING AND STORAGE

- Handling:** 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 container closed when not in use.
- Storage:** Store in a cool, dry, well ventilated area out of direct sunlight. Store away from acids, oxidising agents and foodstuffs. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks.

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

- Occupational Exposure Limits:** No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC). However Exposure Standard for constituent:

	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ethylene glycol (vapour)	20	52	40	104

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These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure Standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

### Personal Protective Equipment:

Avoid skin and eye contact. Wear protective glasses or chemical safety goggles and gloves of impervious material.

Wear appropriate protective clothing to prevent skin exposure.

Use with adequate ventilation. If inhalation risk exists wear organic vapour respirator meeting the requirements of AS1715 and AS1716.

### Engineering Controls:

Use in a well ventilated area. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Vapours may be heavier than air. They can spread along the ground and collect in low or confined areas. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Green liquid
<b>Odour:</b>	Mild
<b>Boiling Point:</b>	180°C
<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20°C):</b>	1.13
<b>Evaporation Rate:</b>	Not Available (n-Butyl acetate=1)
<b>Vapour Pressure 20°C:</b>	Not Available
<b>Decomposition Temp:</b>	Not Available
<b>Physical State:</b>	Liquid
<b>Flash Point:</b>	116°C
<b>Freezing Point:</b>	-37°C
<b>Flammability Limits (%):</b>	Not Available
<b>Autoignition Temp C:</b>	Not Available
<b>PH (50% soln):</b>	7.5 – 9.0
<b>Rel Vapour Density (air-1):</b>	Not Available
<b>% Volatile by Volume:</b>	Not Available
<b>Viscosity @ 20C</b>	25cP

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### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at room temperature in closed containers under normal storage and handling conditions.
<b>Conditions to Avoid:</b>	Avoid sources of ignition, heat, direct sunlight.
<b>Materials to Avoid:</b>	Acids and oxidising agents.
<b>Hazardous Decomposition:</b>	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

### 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information:</b>	No LD50 data available for product. However for ethylene glycol (major constituent):  Oral LD50 (rat): 4700mg/kg Oral LD50 (mouse): 550mg/kg Skin LD50 (rabbit) 9530 uL/kg Skin (Rabbit): Mild Irritant Eyes (Rabbit): Mild Irritant
<b>Health Effects:</b>	No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:
<b>Inhalation:</b>	Not normally an inhalation risk due to low vapour pressure at ambient temperatures. Inhalation of vapour or mists generated by heating, stirring or spraying may cause headaches and irritation of the respiratory tract.
<b>Ingestion:</b>	May cause nausea and vomiting. Ingestion of large quantities may result in unconsciousness and kidney damage.
<b>Skin:</b>	May cause skin irritation. Low hazard for usual industrial handling.
<b>Eye:</b>	May cause moderate eye irritation.

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	No ecological data is available for this product.
<b>Persistence / Degradability:</b>	Not available.
<b>Mobility:</b>	Not available.
<b>Bioaccumulative Potential:</b>	Not available.
<b>Environmental Protection:</b>	Avoid contaminating waterways.

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### 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

**Transport Information:** Classified as Non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

### 15. REGULATORY INFORMATION

**Poisons Schedule:** S5

**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: 14 December 2012

*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