

KOOL-IT RADIATOR CONCENTRATE

SAFETY DATA SHEET

MSDS No:		QUICK SMART PRODUCTS
Product Name:	KOOL-IT RADIATOR CONCENTRATE	53 ASSEMBLY DRIVE
Manufacturers Code:	COOL1, COOL5, COOL20, COOL205	TULLAMARINE VIC 3043
Date:	January 2018	ABN: 40 959 725 049
		Ph: (03) 9338 6655 (BH) Fax: (03) 9335 2598
		Email: gsmart@bigpond.net.au
		Web: www.quicksmartproducts.com.au

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	KOOL-IT RADIATOR CONCENTRATE		
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	Automotive Radiator Coolant		

2. HAZARDS IDENTIFICATION

Hazard Classification HAZARDOUS SUBSTANCE
NON-DANGEROUS GOODS
Hazard classification according to the criteria of NOHSC and GHS.
Dangerous goods classification according to Australian Dangerous Goods Code.

GHS Classification(s) Acute Toxicity - Oral - Category 4

GHS Label Elements

Signal Word WARNING

Symbols



Hazard Statements H302: Harmful if swallowed.

Precautionary Statements

Prevention	P102:	Keep out of reach of children.
	P103:	Read label before use.
	P264:	Wash hands, face and all exposed skin thoroughly after handling.
	P270:	Do not eat, drink or smoke when using this product.
Response	P101:	If medical advice is needed, have product container or label at hand.
	P301+P310:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	P314:	Get medical advice/attention if you feel unwell.
	P330:	Rinse mouth
Storage	Not allocated.	
Disposal	P501:	Dispose of contents/container in accordance with local, regional, national and international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	CAS No	% (w/w)
Ethylene Glycol	107-21-1	>60%
Corrosion Inhibitors	Not Applicable	1-9%
Antifoam	Not Applicable	<1%
Denatonium Benzoate	374-33-6	<1% (10ppm)

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Ingredients determined
non hazardous

Balance

4. FIRST AID MEASURES

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

Description of necessary measures according to routes of exposure

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 mouth and lips with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek immediate medical attention. For advice, call the Poisons Information Centre (131126 Aust) or Doctor.
Eye Contact	If eye contact occurs, hold eyelid open and flush with copious amounts of water for at least 15 minutes or until all contaminants are washed out completely. In all cases of eye contamination it is a sensible precaution to seek medical attention.
Skin Contact	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.
First Aid Facilities	Eye wash station and safety showers are recommended in the area where the product is used.

Most Important Symptoms & Effects, Both Acute & Delayed, Caused by Exposure

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

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). Do not use water in a jet.
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	This product is not readily combustible under normal conditions of use or storage. 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. No information to indicate that this product is an explosion hazard. Closed containers may explode or rupture when exposed to extreme heat.
Hazchem Code	Not applicable.

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6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Avoid accidents, clean up immediately. Slippery when spilled. Avoid contact with eyes and skin. Eliminate all sources of ignition. Increase ventilation. Use clean, non-sparking tools and equipment.
Environmental Precautionary Measures	Use appropriate containment to avoid environmental contamination. Do not let product enter drains, surface water, sewers or water courses. Advise local authorities if this occurs.
Clean Up Procedures	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 waste in accordance to Federal, EPA, State and Local Regulations. Disposal into sewer system is not permitted.

7. HANDLING AND STORAGE

Safe Handling	Always read the product label before using. Avoid eye contact and repeated or prolonged skin contact with the product by using appropriate protective equipment such as gloves, goggles, boots and full length clothing. Eating, drinking and smoking should be prohibited in the area where this material is handled, stored and processed. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Keep container closed when not in use.
Safe Storage	Store in a cool, dry, well ventilated area out of direct sunlight. Store away from acids, oxidising agents and foodstuffs. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. 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	NOTICE
	ppm	mg/m ³	ppm	mg/m ³
	20	52	40	104
	Ethylene glycol (vapour) Sk			
	'Sk' Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.			
	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.			
	If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.			

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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.

Wash contaminated clothing and other protective equipment before storing or re-using.

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

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

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10. STABILITY AND REACTIVITY

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

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 overexposure occurs are:

Inhalation	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.
Ingestion	May cause nausea and vomiting. Ingestion of large quantities may result in unconsciousness and kidney damage.
Skin	May cause skin irritation. Low hazard for usual industrial handling.
Eye	May cause moderate eye irritation.
Acute Toxicity	No LD50 data is available for product. However for ethylene glycol (major constituent): Oral LD50 (rat): 4700 mg/kg Oral LD50 (mouse): 550mg/kg Skin LD50 (rabbit): 9530 uL/kg
Skin Corrosion/Irritation	Skin (rabbit): Mild Irritant
Serious Eye Damage/Irritation	Eyes (rabbit): Mild Irritant
Chronic Effects	Data from animal and human studies to date do not provide evidence that exposure to ethylene glycol has mutagenic or carcinogenic effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No ecological data is available for this product.
Persistence/Degradability	Not available.
Mobility	Not available.
Bioaccumulative Potential	Not available.
Environmental Protection	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 for transport (ADG, IMDG, IATA)

15. REGULATORY INFORMATION

SUSMP S5

AICS (Australia) 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: 17 January 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
CO₂	Carbon Dioxide
COD	Chemical Oxygen Demand
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.

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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