

COOLANT PRE-MIXED RADIATOR FLUID

SAFETY DATA SHEET

| | | |
|---------------------|----------------------------------|---|
| MSDS No: | | QUICK SMART PRODUCTS |
| Product Name: | COOLANT PRE-MIXED RADIATOR FLUID | 53 ASSEMBLY DRIVE |
| Manufacturers Code: | PM1, PM5, PM20, PM205 | 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

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|------------------------------|---|
| 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. |
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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. |
| Storage | P330: | Rinse mouth |
| | | Not allocated. |
| Disposal | P501: | Dispose of contents/container in accordance with local, regional, national and international regulations. |

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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) |
| 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

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|-----------------------------|---|
| 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.

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5. FIRE FIGHTING MEASURES

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|---|---|
| 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 | <p>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.</p> <p>Store away from acids and oxidising agents.</p> <p>No information to indicate that this product is an explosion hazard. Closed containers may explode or rupture when exposed to extreme heat.</p> |
| Hazchem Code | Not applicable. |

6. ACCIDENTAL RELEASE MEASURES

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| 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

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| 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. |

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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: <table><thead><tr><th></th><th colspan="2">TWA</th><th colspan="2">STEL</th><th>NOTICE</th></tr><tr><th></th><th>ppm</th><th>mg/m³</th><th>ppm</th><th>mg/m³</th><th></th></tr></thead><tbody><tr><td>Ethylene glycol (vapour)</td><td>20</td><td>52</td><td>40</td><td>104</td><td>Sk</td></tr></tbody></table> <p>'Sk' Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.</p> <p>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.</p> <p>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.</p> | | TWA | | STEL | | NOTICE | | ppm | mg/m ³ | ppm | mg/m ³ | | Ethylene glycol (vapour) | 20 | 52 | 40 | 104 | Sk |
|--------------------------------------|---|-------------------|------|-------------------|--------|--|--------|--|-----|-------------------|-----|-------------------|--|--------------------------|----|----|----|-----|----|
| | TWA | | STEL | | NOTICE | | | | | | | | | | | | | | |
| | ppm | mg/m ³ | ppm | mg/m ³ | | | | | | | | | | | | | | | |
| Ethylene glycol (vapour) | 20 | 52 | 40 | 104 | Sk | | | | | | | | | | | | | | |
| 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

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|--------------------------------|-----------------------------------|
| 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 |

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|-----------------------------------|---------------|
| 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 |

10. STABILITY AND REACTIVITY

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| 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:

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| 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. |

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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. |

13. DISPOSAL CONSIDERATIONS

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|------------------------------------|--|
| 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

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| Transport Information | Classified as non-dangerous goods for transport (ADG, IMDG, IATA) |
|------------------------------|---|

15. REGULATORY INFORMATION

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|-------------------------|--|
| 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 |

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ppm
SDS
STEL

Parts Per Million
Safety Data Sheet
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
TLV
TWA

Standard for the Uniform Scheduling of Medicines and Poisons
Threshold Limit Value
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