SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **LONGLIFE COOLANT Q3079**
QS Code: LL1; LL5; LL20; LL1000

Company Name: Quick Smart Products
Supplier: Advance Chemicals
ABN: 61 005 625 025
Street Address: 4 – 8 Malton Court Altona, 3018
Telephone Number: (03) 9398 4444

Emergency Telephone: Ted Powell (03) 9398 4444 (Business Hours)
0425 800 022 (After Hours)
Use: Automotive radiator coolant

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 7th Revised Edition.

Hazard Classification: HAZARDOUS SUBSTANCE, NON DANGEROUS GOODS.

Classification of the substance or mixture:
Acute toxicity (ORAL) – Category 4
Specidic target organ toxicity (single exposure) – Category 3
Specific target organ toxicity (repeated exposure) – Category 2

SIGNAL WORD: WARNING

Hazard Statement(s):
H302 – Harmful if swallowed
H335 – May cause respiratory irritation
H373 – May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention:
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.
P104 - Read Safety Data Sheet before use.
P261 – Do not breathe fumes/gas/mist/vapours or spray.
P264 – wash hands, face and all exposed skin thoroughly after handling
P270 – Do not eat, drink or smoke when using this product
P271 – use only outdoors or in a well ventilated area.
P280 - Wear protective gloves/eye protection/ face protection.

Response:
P305 + P313 – IF exposed or concerned: Get medical advice/attention
P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301 + P310 + P331 – If SWALLOWED: do NOT induce vomiting. Immediately call a POISON CENTER (131126) or doctor/physician.
P330 – Rinse mouth

Storage:
P405 – Store in a well-ventilated place. Keep cool.

Disposal:
P501: Dispose of contents/container in accordance with local waste management authority.

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Poison Schedule (Australia): 6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	C.A.S. No.	Proportion	
Ethylene Glycol	107-21-1	>60%	
Corrosion Inhibitors	-	1 – 9%	
Antifoam	-	< 1%	
Denatonium Benzoate	374-33-6	< 1% (10ppm)	
Ingredients determined non hazardous	-	balance	

4. FIRST AID MEASURES

Inhalation: remove victim from exposure- avoid becoming a casualty. Ensure airways are clear and have qualified person give oxygen through a face mask. Seek medical attention.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Wash contaminated clothing before re-use. If irritation occurs seek medical advice.

Eye Contact: If contact with eye(s) occur, wash with running water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: DO NOT INDUCE VOMITING. Wash out mouth with water and give plenty of water to drink. Seek medical attention.

Notes to Doctor: Treat symptomatically. Do not administer catecholamines (because of the cardiac effect caused by the product). For advice, contact the Poisons Information Centre – Phone 131 126.

5. FIRE FIGHTING MEASURES

Specific Hazards: Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

Fire- fighting advice: Self-contained breathing apparatus and full protective clothing.

Suitable Extinguishing Media: Dry agent, foam or water mist.

Hazchem Code: N/A

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with skin and eyes and inhalation of vapours. Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Use self-contained breathing apparatus and full protective clothing to minimise exposure. Place inert absorbent such as vermiculite, sand or dirt onto material. Collect material with non-sparking tools and place into a suitable labelled container. Do not dilute material but contain. Mop up the remaining material and place into the same container. If a large quantity of this material enters the environment, contact the relevant regulatory authorities.

7. HANDLING AND STORAGE

Handling advice: Use in well ventilated area. DO NOT store or use in confined spaces. Build up of mists or vapours in the atmosphere must be prevented. Avoid breathing in spray or mists or vapours. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. It is essential that all who come into contact with this material maintain a high standard of personal hygiene ie: washing hands prior to eating, drinking, smoking or using toilet facilities.

Storage advice: The product should be stored in a cool and well ventilated area, away from moisture, heat and incompatible materials. Protect from light. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. Provide a catch-tank in a bunded area.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits:

Substance	STEL		TWA	
	ppm	mg/m^3	ppm	mg/m^3
Ethylene Glycol (vapour)	40	104	20	52
Ethylene Glycol (particulate)	-	-	-	10

Engineering Controls: Provide sufficient ventilation to keep airborne levels well below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas and natural ventilation is inadequate, a local exhaust ventilation system is required.

Personal Protection Equipment: The use of safety glasses with side shields or goggles, gloves made from impervious material, suitable workwear is strongly recommended. The use of a respirator is recommended when ventilation is inadequate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue, clear liquid
Boiling Point: 192^{o}C
Melting Point: - 13^{o}C
Flash Point: 110^{o}C (closed cup)
Vapour Pressure: 0.05 mm Hg @ 20^{o}C
Vapour Density (Air = 1): 2.14
Flammability Limits: Lower: 3.2% Upper: 15.3%
Specific Gravity: 1.115
pH (1% dispersion): N/A
Solubility in water: Soluble
Corrosiveness: Non Corrosive

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions. Product is sensitive to light and moisture.

11. TOXICOLOGICAL INFORMATION

Irritant dose (rabbit, eyes) 1440mg, 6 hours duration- moderate eye irritant.

Acute Health Effects:

Ingested: Harmful if swallowed. Ingestion of this product will irritate the gastric tract causing nausea and vomiting. Symptoms include respiratory failure, central nervous depression, cardiovascular collapse, pulmonary oedema, sever acidosis, and death. If death does not occur, acute kidney failure and brain damage may occur. The single oral dose lethal for humans has been estimated at 1.6 g/kg.

Eye: vapour and mist may cause eye irritation. Liquid is mildly to moderately irritating to eyes.

Skin: May cause redness, itching and irritation. LONGLIFE COOLANT Q3079 can be absorbed through the skin in toxic amounts.

Inhaled: Due to low vapour pressure of LONGLIFE COOLANT Q3079, it is unlikely that a person would be exposed to toxicologically significant amounts of vapours at room temperature. Howeve, at high temperature: inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Chronic: Chronic exposures to vapour may cause central nervous system abnormalities and lymphocytosis (an increase in the number of lymphocytes in the blood usually associated with chronic infections or inflammations).

12. ECOLOGICAL INFORMATION

Prevent material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Dispose of waste according to federal, E.P.A, state and local regulations. Assure conformity with all applicable regulations.

14. TRANSPORT INFORMATION

UN Number: N/A

Proper Shipping Name: LONGLIFE COOLANT Q3079

Dangerous Goods Class: N/A

Subsidiary risk: N/A

Packing Group: N/A

Hazchem Code: N/A

Transport:
ROAD AND RAIL: Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

SEA: Not a Dangerous Good according to the International Maritime Dangerous Goods Code (IMDG Code).

AIR: Not a Dangerous Good according to the International Air Transport Association (IATA) Dangerous Goods Regulations

15. REGULATORY INFORMATION

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Poisons Schedule: 6

16. OTHER INFORMATION

This S.D.S. is valid for 5 years from the date of issue but may be withdrawn and revised anytime prior to that date. Please ensure that you are using the latest issue.

All information contained in this Safety Data Sheet is as accurate and up-to-date as possible. Since ADVANCE CHEMICALS can not anticipate or control the conditions under which this information can be used, each user should review this information in the specific context of the intended application.

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