



SAFETY DATA SHEET

Gulf Antifreeze

06118

Issuing Date 03-26-2017

Revision Date 03-26-2017

Version 1

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier

Product Name **Gulf Antifreeze**
Product Code(s) 06118

Other means of identification

UN Number Not Applicable

Recommended use of the chemical and restrictions on use

Recommended Use Antifreeze / Coolant

Uses advised against Any other purpose.

Suppliers name, address and phone number

Gulf Oil Supply Company Limited
B2 Industry Street, Qormi, QRM 3000, Malta
+44 207 321 6219
products@gulfoilltd.com sds@gulfoilltd.com

Emergency telephone number

Europe (+) 44 808 189 0979 Code 334276
(+) 1 760 476 3961 Code 334276
(+) 32 (0) 3241 33 55

Poison Information Center (AU) 13 11 26, (NZ) 0800 764 766
telephone number

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity - Oral	Category 4 - (H302)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)

Label elements

Contains Ethane-1,2-diol

Exclamation mark
Health hazards

**Signal word**

Warning

Hazard statements

H302 - Harmful if swallowed

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Get medical advice/attention if you feel unwell

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture. Health hazard information is based on its ingredients

Chemical name	CAS No	Weight-%
Ethane-1,2-diol	107-21-1	60% - 100%

The remaining composition is a mixture of non-classified ingredients or additives below the threshold for disclosure

SECTION 4: FIRST AID MEASURES

Description of first-aid measures**General advice**

Do not get in eyes, on skin, or on clothing. When symptoms persist or in all cases of doubt seek medical advice. Do not breathe dust/fume/gas/mist/vapors/spray.

Inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.

Skin contact

Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.

Ingestion

Immediate medical attention is required. Do not induce vomiting without medical advice. Clean mouth with water and afterwards drink plenty of water. Call a physician or Poison Control Center immediately.

Protection of First-aiders

Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure that

Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.

Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials

Strong reducing agents, Oxidizing agent, Acids, Bases

Recommended Use

Antifreeze / Coolant

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Limits**

Chemical name	Australia	New Zealand	New Zealand - Biological Exposure Indices (BEI)
Ethane-1,2-diol	TWA: 10 mg/m ³ particulate TWA: 20 ppm vapour TWA: 52 mg/m ³ vapour STEL: 40 ppm vapour STEL: 104 mg/m ³ vapour (s)	Ceiling: 50 ppm mist and vapour Ceiling: 127 mg/m ³ mist and vapour	

Australia - Workplace Exposure Standards for Airborne Contaminants. New Zealand - Workplace Exposure Standards and Biological Exposure Indices.

Appropriate engineering controls**Engineering controls**

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Tightly fitting safety goggles.

Skin and body protection

Long sleeved clothing.

Hand Protection

Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Respiratory protection

No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hygiene measures

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls

No special environmental precautions required.

Thermal hazards

None under normal use conditions

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Appearance	clear
Odor	Characteristic	Odor threshold	Not Determined

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	7.1	
Melting point / freezing point	-13 °C / 8.6 °F	
Boiling point / boiling range	192 °C / 378 °F	
Flash point	111 °C / 232 °F	
Evaporation rate	0.01	. (BuAc = 1)
Flammability (solid, gas)	Not Determined	
Flammability Limit in Air		
Upper flammability limit:	15.3%	
Lower flammability limit:	3.2%	
Vapor pressure	7	Pa @ 20°C
Vapor density	Not Determined	
Relative density	1.161	@20°C
Solubility(ies)	Soluble in water	
Partition coefficient	Not Determined	
Autoignition temperature	432 °C / 810 °F	
Decomposition temperature	Not Determined	
Kinematic viscosity	860 cSt @ 20 °C	
Explosive properties	Not applicable	
Oxidizing Properties	Not applicable	

Other Information

Viscosity, kinematic (100°C)	Not Determined
Pour Point	Not Determined
VOC Content (ASTM E-1868-10)	Not Determined
VOC content	Not Determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity

None under normal use conditions

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

None under normal use conditions

Conditions to avoid

Extremes of temperature and direct sunlight, Temperatures above 50°C

Incompatible materials

Strong reducing agents, Oxidizing agent, Acids, Bases

Hazardous decomposition products

None under normal use conditions

SECTION 11: TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure

Product Information - Principle Routes of Exposure

Inhalation	None known
Eye contact	None known
Skin contact	None known
Ingestion	Harmful if swallowed; Ingestion constitutes the main danger because of the toxicity of ethylene glycol; May cause adverse liver effects; May cause adverse kidney effects

Numerical measures of toxicity - Product Information

ATEmix (oral)	532.00 mg/kg
ATEmix (dermal)	>2000 mg/kg

Acute toxicity - Product Information

Harmful if swallowed.

Acute toxicity - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethane-1,2-diol	4000 mg/kg (Rat)	= 9530 µL/kg (Rabbit)	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Sensitization	
Respiratory Sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ systemic toxicity (single exposure)	Based on available data, the classification criteria are not met
Specific target organ systemic toxicity (repeated exposure)	Causes damage to organs through prolonged or repeated exposure
Aspiration hazard	Based on available data, the classification criteria are not met.
Exposure levels	See section 8 for more information

Interactive effects None known

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

No special environmental measures are necessary

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethane-1,2-diol	6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50	41000: 96 h Oncorhynchus mykiss mg/L LC50 14-18: 96 h Oncorhynchus mykiss ml/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 40000-60000: 96 h Pimephales promelas mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static		46300: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulative potential

Chemical name	Partition coefficient
Ethane-1,2-diol	-1.93

Mobility

Miscible with water

Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

Safe handling and disposal methods

Dispose of in accordance with local regulations

Disposal of any contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Observe all label precautions until container is cleaned, reconditioned or destroyed.

Environmental regulations

No information available

SECTION 14: TRANSPORT INFORMATION

ADG Not regulated

IMDG Not regulated

IATA Not regulated

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Australia

Model Work Health and Safety Regulations (2016).
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (2011).

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

Poison Schedule Number 6

New Zealand

Hazardous Substances Regulation 2001.

New Zealand

Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents
(Subsidiary Hazard) Group Standard 2006
HSR002606
6.1E

HSNO Approval Number:

HSNO Hazard Classification:

International Regulations

Ozone-depleting substances (ODS)

Not applicable

Persistent Organic Pollutants

Not applicable

Chemicals Subject to Prior Informed Consent (PIC)

Not applicable

International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
All ingredients are on the inventory or exempt from listing

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
All ingredients are on the inventory or exempt from listing

AICS - Australian Inventory of Chemical Substances
All ingredients are on the inventory or exempt from listing

PICCS - Philippines Inventory of Chemicals and Chemical Substances
All ingredients are on the inventory or exempt from listing

KECL - Korean Existing and Evaluated Chemical Substances
All ingredients are on the inventory or exempt from listing

IECSC - China Inventory of Existing Chemical Substances
All ingredients are on the inventory or exempt from listing

ENCS - Japan Existing and New Chemical Substances
All ingredients are on the inventory or exempt from listing

TCSI - Taiwan National Existing Chemical Inventory
Contact supplier for inventory compliance status

NZIoC - New Zealand Inventory of Chemicals
All ingredients are on the inventory or exempt from listing

Other Information

Not applicable

SECTION 16: OTHER INFORMATION

Issuing Date	03-26-2017
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Revision Note	Initial Release

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA	Time weighted average	STEL	Short term exposure limit
Ceiling	Maximum limit value:	(s) - Skin	Skin designation
+	Sensitizers	C	Carcinogen
STOT SE - Specific target organ systemic toxicity (Single exposure)			
STOT RE - Specific target organ systemic toxicity (repeated exposure)			
VOC - Volatile organic compounds			

Disclaimer

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End of Safety Data Sheet