



Lubricants

SAFETY DATA SHEET

Long Life Coolant

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Maxol Long Life Coolant
Product number	AFGP3T02FH
Internal identification	49413
REACH registration notes	This material is a mixture. All components have been registered under REACH by the Manufacturer or Supplier.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Automotive Industry.

1.3. Details of the supplier of the safety data sheet

Supplier

Maxol Lubricants Ltd.
Unit D, Airport Business Campus,
Santry,
Dublin 9.
+353 (0) 1 806 0300

- **Further information obtainable from:** Product safety department - +353 (0) 1 806 0300.
- **1.4 Emergency telephone number:** +353 (0) 1 806 0300 (9 AM to 4 PM, Monday to Friday)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H302 STOT RE 2 - H373 Environmental hazards
	Not Classified

Classification (67/548/EEC or Xn;R22.

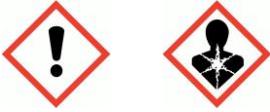
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1999/45/EC)

2.2. Label elements

Pictogram



Signal word

Warning

Hazard statements

H302 Harmful if swallowed.

H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed.

Precautionary statements

P260 Do not breathe vapour/spray.

P264 Wash contaminated skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with national regulations.

Contains

Mono Ethylene Glycol

Supplementary precautionary statements

P330 Rinse mouth.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mono Ethylene Glycol			>30-<60%
CAS number: 107-21-1	EC number: 203-473-3	REACH registration number: 012119456816-28- xx	
Classification	Classification (67/548/EEC or 1999/45/EC) Xn;R22.		
Acute Tox. 4 - H302			
STOT RE 2 - H373			
Disodium tetraborate pentahydrate			>1-<3%
CAS number: 12179-04-3	EC number: 215-540-4	REACH registration number: 012119490790-32-xxxx	
Classification	Classification (67/548/EEC or 1999/45/EC) Repr. Cat. 2;R60,R61. Xi;R36.		
Eye Irrit. 2 - H319			
Repr. 1B - H360FD			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments

Bitrex [Denatonium benzoate CAS 3734-33-6] may have been added in small quantities by customer request.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from source of contamination. Move affected person to fresh air and

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keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place.

Inhalation	Move affected person to fresh air at once. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.
Skin contact	Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	No specific symptoms known.
Ingestion	Harmful if swallowed
Skin contact	No specific symptoms known.
Eye contact	No specific symptoms known.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

5.3. Advice for firefighters

Protective actions during firefighting	No action shall be taken without appropriate training or involving any personal risk. Use water to keep fire exposed containers cool and disperse vapours.
Special protective equipment protective for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Do not touch or walk into spilled material. Avoid inhalation of vapours. Provide adequate ventilation.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. 6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid inhalation of vapours/spray and contact with skin and eyes. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Provide adequate ventilation. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep containers upright. Keep away from food, drink and animal feeding stuffs. Protect from sunlight. Store at temperatures between 0°C and 40°C.

Storage class Unspecified storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 60

Short-term exposure limit (15-minute): WEL mg/m³

Mono Ethylene Glycol

Long-term exposure limit (8-hour TWA): WEL 20 ppm(Sk) 52 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 40 ppm(Sk) 104 mg/m³(Sk)

Disodium tetraborate pentahydrate

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

WEL = Workplace Exposure Limit

Mono Ethylene Glycol (CAS: 107-21-1)

DNEL	Industry - Inhalation; Long term local effects: 35 mg/m ³
	Industry - Dermal; Long term systemic effects: 106 mg/kg
	Consumer - Inhalation; Long term local effects: 7 mg/m ³
	Consumer - Dermal; Long term systemic effects: 53 mg/m ³

PNEC	- Fresh water; 10 mg/l
	- Marine water; 1 mg/l
	- STP; 199.5 mg/l
	- Sediment Freshwater; 20.9 mg/kg
	- Soil; 1.53 mg/kg
	- Intermittent release; 10 mg/l

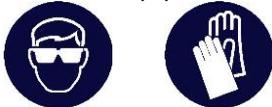
Disodium tetraborate pentahydrate (CAS: 12179-04-3)

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DNEL	<p>Consumer - Oral; Short term systemic effects: 1.15 mg/kg/day</p> <p>Industry - Inhalation; Short term local effects: 17.04 mg/m³</p> <p>Industry - Inhalation; Long term local effects: 17.04 mg/m³</p> <p>Industry - Inhalation; Long term systemic effects: 9.8 mg/m³</p> <p>Consumer - Inhalation; Short term local effects: 17.04 mg/m³</p> <p>Consumer - Inhalation; Long term local effects: 17.04 mg/m³</p> <p>Consumer - Inhalation; Long term systemic effects: 4.9 mg/m³</p> <p>Industry - Dermal; Long term systemic effects: 458.2 mg/kg/day</p> <p>Consumer - Dermal; Long term systemic effects: 231.8 mg/kg/day</p>
PNEC	<p>- Fresh water; 2.02 mg/l</p> <p>- Marine water; 2.02 mg/l</p> <p>- Intermittent release; 13.7 mg/l</p> <p>- Soil; 5.4 mg/kg</p> <p>- STP; 10 mg/l</p>

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield. EN 166 recommended

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Butyl rubber. It is recommended that gloves are made of the following material: Neoprene. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. It is recommended that gloves are made of the following material: Polyvinyl alcohol (PVA). EN 474 gloves with a protective index of 6 or greater are recommended.

Other skin and body protection

Provide eyewash station and safety shower. Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

Respiratory protection

It is recommended to use respiratory equipment with combination filter, type A2/P2.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	Hygroscopic. Blue.
Odour	Odourless.
Melting point	-38°C

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Initial boiling point and range	108°C @ 760 mm Hg
Flash point	111°C CC (Closed cup).
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 3.2
Relative density	1.07 @ 20°C
Solubility(ies)	Miscible with water. Miscible with the following materials: acetone Alcohols.
Partition coefficient log Pow:	-1.93
Auto-ignition temperature	400°C
Viscosity	21 cP @ 20°C

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents.

10.5. Incompatible materials

Materials to avoid Strong oxides. Strong alkalis. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition Thermal decomposition or combustion products may include the following substances: Oxides products of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Information given is applicable to the major ingredient.

Acute toxicity - oral

Acute toxicity oral (LD₅₀) 7,712.0 mg/kg

Species Rat

ATE oral (mg/kg) 979.67

Acute toxicity - dermal

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Acute toxicity dermal (LD₅₀ mg/kg) 3,500.0

Species Mouse

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 2.5

Species Rat

Notes (inhalation LC₅₀) 6 hrs

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation:: Negative. Not mutagenic

Carcinogenicity

Carcinogenicity Not available.

Reproductive toxicity

Reproductive toxicity - fertility Fertility: - >1000 mg/kg, Oral, Rat Not expected to be a reproductive toxicant

Reproductive toxicity development Not available.

Specific target organ toxicity - single exposure

STOT - single exposure Not available.

Specific target organ toxicity - repeated exposure STOT -

repeated exposure NOAEL 200 mg/kg, Oral, Rat

Ingestion Harmful if swallowed.

SECTION 12: Ecological Information

Ecotoxicity The product is not expected to be hazardous to the environment. Information given is applicable to the major ingredient.

12.1. Toxicity

Acute toxicity - fish LC50, 96 hours, 96 hours: 72860 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours, 48 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours, 96 hours: > 6500 mg/l, Selenastrum capricornutum

Acute toxicity microorganisms EC20, >: > 1995 mg/l, Activated sludge
30 Mins

Chronic toxicity - fish early life stage NOEC, : 15380 mg/l, Pimephales promelas (Fat-head Minnow)
7 days

12.2. Persistence and degradability

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Persistence and degradability Readily biodegradable
 Stability (hydrolysis) Hydrolysis is not expected / probable

12.3. Bioaccumulative potential

Bioaccumulative potential Bioconcentration potential is low.

Partition coefficient log Pow: -1.93

12.4. Mobility in soil

Mobility This material has low volatility and is water soluble hence the potential for mobility is high.

Adsorption/desorption Soil - Koc: 1 @ °C
 coefficient

Henry's law constant 0.1327 atm m³/mol @ °C
 assessment

12.5. Results of PBT and vPvB

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria.
 assessment

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Waste is suitable for incineration.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class This material and container must be disposed of as a HAZARDOUS WASTE.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

No information required.

14.2. UN proper shipping name

No information required.

14.3. Transport hazard class(es)

No information required.

14.4. Packing group

No information required.

14.5. Environmental hazards

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Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

No information required.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Substance Name: Ethylene Glycol
Annex II of MARPOL 73/78 Pollution Category: Y and the
IBC Code Ship Type: 3

SECTION 15: Regulatory information

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

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Authorisations (Title VII Regulation 1907/2006)	This product contains a substance listed in the candidate list for authorisation established in accordance with article 59(1)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	New company logo
Issued by	Solventis Technical Team
Revision date	04/07/2017
Revision	1
Supersedes date	N/A
SDS number	21424
SDS status	Approved.
Risk phrases in full	R22 Harmful if swallowed. R36 Irritating to eyes. R60 May impair fertility. R61 May cause harm to the unborn child.
Hazard statements in full	H302 Harmful if swallowed. H319 Causes serious eye irritation. H360FD May damage fertility. May damage the unborn child. H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed. H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate

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and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.