



Coolant Premium Longlife -40°C G12+ Ready to Use Clear / Blank

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Revision date: 1-3-2016 version: 1.9

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

1.1. Product identifier

Product form : Mixture
 Product name : Coolant Premium Longlife -40°C G12+ Ready to Use Clear / Blank
 Product code : 86000CBL

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

1.2.1. Relevant identified uses

Main use category : Professional use
 Function or use category : Anti-freezing agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

MPM International Oil Company
 Cyclotronweg 1
 2629 HN Delft - Nederland
 T +31 (0)15 2514030 - F +31 (0)15 2514031
info@mpmoil.nl - www.mpmoil.nl

1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

| Country | Official advisory body | Address | Emergency number | Comment |
|----------------|---|---|------------------|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | Beaumont Hospital Beaumont Road 9 Dublin | : +353 1 8379964 | |
| United Kingdom | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER London | 0870 243 2241 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 : H302
 Specific target organ toxicity — Repeated exposure, Category 2 : H373

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

CLP Signal word : Warning
 Hazardous ingredients : 1,2-Ethanediol
 Hazard statements (CLP) : H302 - Harmful if swallowed
 H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure
 Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 - Wash the hands thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product.

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P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell
P314 - Get medical advice/attention if you feel unwell
P330 - Rinse mouth
P501 - Dispose of contents/container to officially registered waste disposal company.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------|--|---------|---|
| 1,2-Ethanediol | (CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28 | 30 - 60 | Acute Tox. 4 (Oral), H302 STOT RE 2, H373 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation : Take victim to fresh air, in a quiet place and if necessary take medical advice. In case of unconsciousness place in unconscious position and seek medical advice.

After skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If irritation persists, consult a specialist.

After eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a specialist.

After ingestion : Do NOT induce vomiting. Let water be swallowed in little sips (dilution effect). Get immediate medical advice/attention. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink.

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

Symptoms/effects : Ethylene glycol is harmful if swallowed. Symptoms may be delayed. Can include nausea, vomiting, cramps, can affect the level of consciousness. Can give damage to kidney.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : powder, alcohol-resistant foam, water spray, carbon dioxide. Sand.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Explosion hazard : Heat from a fire could result in drum bursting.

5.3. Advice for firefighters

Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Self-contained breathing apparatus with an air line.

Other information : Use water spray/stream to protect personnel and to cool endangered containers. Do not allow water used to extinguish fire to enter drains or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Plug the leak, cut off the supply. Do not breathe vapour or spray. Provide adequate ventilation.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing and eye/face protection.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye/face protection.

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6.2. Environmental precautions

Prevent spreading over great surfaces (e.g. by damming or installing oil booms). Do not flush into surface water or sewer system. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Prevent spreading over great surfaces (e.g. by damming or installing oil booms). Extinguish all ignition sources.

Methods for cleaning up : Clean up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel).

6.4. Reference to other sections

Information on disposal - see Section 13. Information on personal protective equipment - see Chapter 8. Information on safe handling - see Section 7.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured. Keep away from sources of ignition - No smoking. Avoid all eye and skin contact and do not breathe vapour and mist.

Hygiene measures : When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed.

Incompatible products : Strong acid.

Information on mixed storage : Keep in cool, well-ventilated place away from acids.

Storage area : Keep container tightly closed in a cool, well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 1,2-Ethanediole (107-21-1) | | |
|----------------------------|---------------------------------|-----------------------|
| EU | Local name | Ethylene glycol |
| EU | IOELV TWA (mg/m ³) | 52 mg/m ³ |
| EU | IOELV TWA (ppm) | 20 ppm |
| EU | IOELV STEL (mg/m ³) | 104 mg/m ³ |
| EU | IOELV STEL (ppm) | 40 ppm |
| EU | Notes | Skin |

8.2. Exposure controls

Technical measures:

Ensure adequate ventilation of the storage area. Provide adequate ventilation.

Materials for protective clothing:

Suitable material: NR (Natural rubber (caoutchouc), Natural latex). neoprene. nitrile rubber. PVC (Polyvinyl chloride).

Hand protection:

Wear suitable gloves resistant to chemical penetration. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Eye protection:

No special eye protection equipment recommended under normal conditions of use. Eye protection should only be necessary where hot liquid could be splashed or sprayed

Skin and body protection:

No special required clothing

Respiratory protection:

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.

Other information:

The usual precautions for handling chemicals should be observed. Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | : Liquid |
| Appearance | : Hygroscopic. |
| Colour | : colourless. |
| Odour | : odourless. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : -12 °C |
| Freezing point | : -40 °C 50% Diluted |
| Boiling point | : 197 °C 760 mm Hg |
| Flash point | : 111 °C CC (closed cup) |
| Auto-ignition temperature | : 400 °C |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : 0,05 kPa 20°C |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1057 g/l 20°C |
| Solubility | : Miscible with: Water. Alcohol. Acetone. |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

Miscibility : water,acetone,alcohol

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide.

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No naked flames, sparks, and do not smoke. moisture.

10.5. Incompatible materials

Strong acid. Oxidizing substances.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

| | |
|----------------|---------------|
| ATE CLP (oral) | 500,000 mg/kg |
|----------------|---------------|

| 1,2-Ethandiol (107-21-1) | |
|----------------------------|--------------------|
| LD50 oral rat | 7712 mg/kg |
| LD50 dermal rat | > 3500 mg/kg Mouse |
| LD50 dermal rabbit | 10600 mg/kg |
| LC50 inhalation rat (mg/l) | > 2,5 mg/l/6Hrs |

Skin corrosion/irritation : Not classified

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| | |
|-----------------------------------|------------------|
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

| 1,2-Ethanediol (107-21-1) | |
|---|--|
| NOAEL (chronic, oral, animal/male, 2 years) | 1000 mg/kg bodyweight |
| NOAEL (chronic, oral, animal/female, 2 years) | 1500 mg/kg bodyweight |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : May cause damage to organs (kidneys) through prolonged or repeated exposure. |

| 1,2-Ethanediol (107-21-1) | |
|----------------------------|--------------------------|
| NOAEL (oral, rat, 90 days) | 200 mg/kg bodyweight/day |
| Aspiration hazard | : Not classified |

Potential adverse human health effects and symptoms : This product contains ethylene glycol (EG). The toxicity of EG via inhalation or skin contact is expected to be slight at room temperature. The estimated oral lethal dose is about 100 cc (3.3 oz.) for an adult human. Ethylene glycol is oxidized to oxalic acid which results in the deposition of calcium oxalate crystals mainly in the brain and kidneys. Early signs and symptoms of EG poisoning may resemble those of alcohol intoxication. Later, the victim may experience nausea, vomiting, weakness, abdominal and muscle pain, difficulty in breathing and decreased urine output. When EG was heated above the boiling point of water, vapors formed which reportedly caused unconsciousness, increased lymphocyte count, and a rapid, jerky movement of the eyes in persons chronically exposed. When EG was administered orally to pregnant rats and mice, there was an increase in fetal deaths and birth defects. Some of these effects occurred at doses that had no toxic effects on the mothers. We are not aware of any reports that EG causes reproductive toxicity in human beings.

2-Ethylhexanoic acid (2-EXA) caused an increase in liver size and enzyme levels when repeatedly administered to rats via the diet. When administered to pregnant rats by gavage or in drinking water, 2-EXA caused teratogenicity (birth defects) and delayed postnatal development of the pups. Additionally, 2-EXA impaired female fertility in rats. Birth defects were seen in the offspring of mice who were administered sodium 2-ethylhexanoate via intraperitoneal injection during pregnancy.

Other information : Contains small amount Bitrex.
Bitterant agent is a general description for chemical additives that are added to hazardous products to give it a bitter taste, which creates a strong aversion and as such avoids accidental poisonings for especially young children and household pets. It is often used in household cleaners, pesticides and also engine coolants. There are a number of possible chemicals that can be used, however, most commonly known is the Denatonium benzoate (CAS 3734-33-6).

SECTION 12: Ecological information

12.1. Toxicity

General : According to the criteria of the EC-classification and labelling "dangerous for the environment" (93/21/EEC) the material/product is not to be classified as dangerous to the environment.

| 1,2-Ethanediol (107-21-1) | |
|--------------------------------|---|
| LC50 fish 1 | 72860 mg/l 96 hrs / Pimephales promelas |
| EC50 Daphnia 1 | > 100 mg/l 48 hrs |
| EC50 other aquatic organisms 2 | > 9600 mg/l 96 hrs / Selenastrum capricornutum |
| NOEC (chronic) | 15380 mg/l Fish Early Life Stage / Pimephales promelas / 7 days |

12.2. Persistence and degradability

| 1,2-Ethanediol (107-21-1) | |
|---------------------------|-----------------------|
| Biodegradation | Readily biodegradable |

12.3. Bioaccumulative potential

| 1,2-Ethanediol (107-21-1) | |
|---------------------------|------------------------------|
| Log Pow | -1.36 |
| Bioaccumulative potential | There is no bioaccumulation. |

12.4. Mobility in soil

| Coolant Premium Longlife -40°C G12+ Ready to Use Clear / Blank | |
|--|---|
| Soil | Prevent soil and water pollution. |
| 1,2-Ethanediol (107-21-1) | |
| Soil | This material has low volatility and is water soluble hence the potential for mobility is high. |

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose as hazardous waste.
Waste materials : Waste disposal according to official state regulations.
European List of Waste (LoW) code : 16 01 14* - antifreeze fluids containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG |
|---|---|
| 14.1. UN number | |
| Not applicable | Not applicable |
| 14.2. UN proper shipping name | |
| Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | |
| Not applicable | Not applicable |
| Not applicable | Not applicable |
| 14.4. Packing group | |
| Not applicable | Not applicable |
| 14.5. Environmental hazards | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No |
| No supplementary information available | |

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| H302 | Harmful if swallowed |
| H373 | May cause damage to organs through prolonged or repeated exposure |

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SDS MPM REACH

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product