



Antifreezes

Product Reference code:95599872

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Revision date: 5/29/2023 Supersedes version of: 5/18/2021 Version: 2.02

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

1.1. Product identifier

Product form : Mixture
Name : Antifreezes
Trade name : Antifreeze Premix Longlife
UFI : FFKM-5PXY-T5K1-91GA
Product code : 95599872
Product group : Antifreezes

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Professional use, Consumer use
Use of the substance/mixture : Use in automotive applications

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Name Opel Automobile GmbH
Bahnhofsplatz 1
D 65423 Rüsselsheim am Main
Fax +49-6142/ 749-503
Inquiry office IFZ Ingenieurbüro und Consulting GmbH
E-mail OPEL-helpdesk@ifz-berlin.de
Telephone: +49 30 / 2904897-10

1.4. Emergency telephone number

Emergency number +49 61 31 19240
United Kingdom +44 870 600 626 / 0870 600 6266

Further information

Apply safety data sheet to
the following products:

Part-No.	Catalogue-No.	amount
95599872	-	5 L

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 H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available



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2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

GHS08

Signal word (CLP)

: Warning

Contains

: ethanediol; ethylene glycol

Hazard statements (CLP)

: H302 - Harmful if swallowed.
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P501 - Dispose of Contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Other hazards which do not result in classification

: At high temperatures, vapours can form in concentrations which can be hazardous to health.

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
ethanediol; ethylene glycol (107-21-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.
sodium molybdate dihydrate (10102-40-6)	Not applicable (inorganic compounds)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 %

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]
ethanediol; ethylene glycol substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816- 28	34 – 80	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

Comments

: Contains bitters

Full text of H- and EUH-statements: see section 16



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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this safety data sheet to the doctor in attendance. If unconscious, place the person in the recovery position and seek medical advice immediately. Do not administer liquids to the unconscious person and avoid vomiting. Protection is needed for the First Aider. Use personal protective equipment. (Protective gloves, chemical-resistant; Safety glasses, respirator mask). Eye wash fountains and safety showers must be easily accessible.
First-aid measures after inhalation	: Remove the victim into fresh air. Lay the affected person down, and keep her or him warm and calm. If symptoms persist, call a physician. In case of irregular breathing or respiratory arrest: Give oxygen or artificial respiration if necessary. Call a physician immediately.
First-aid measures after skin contact	: Wash contaminated skin areas thoroughly with soap and water. Remove all contaminated clothes and shoes. If skin irritation persists, call a physician.
First-aid measures after eye contact	: Rinse the eyes with the lids open for several minutes under running water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist. A suitable eye shower is available in the working area.
First-aid measures after ingestion	: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting. If victim is conscious: Clean mouth with water and drink plenty of water afterwards. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. The same applies if the patient suffers cramps. If swallowed or in the event of vomiting, risk of product entering the lungs. In the event of spontaneous nausea and unconsciousness, keep the head back and bring the patient into the recovery position.

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

Symptoms/effects	: May cause: headache, nausea, weakness. More severe effects (shortness of breath, muscle twitching, unconsciousness, death) if excessive exposure.
Symptoms/effects after inhalation	: Vapours may cause drowsiness and dizziness. Irritation of mucous membranes. Central nervous system disorders. Coordination and equilibrium disorders can occur. Disorientation, blurred vision, abdominal pain, muscle pain.
Symptoms/effects after skin contact	: Prolonged or repeated contact may dry skin and cause irritation.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/effects after ingestion	: Effects due to ingestion may include: cramps, vomiting, diarrhoea, thirst. Excessive exposures may affect human health, as follows: liver and kidney damage. Swallowing can lead to lung oedema or pneumonia. Danger of blindness. Effects on following organs are reported: lungs, heart. Danger of metabolic acidosis.
Chronic symptoms	: Prolonged exposure may cause chronic effects.

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

Symptomatic treatment (decontamination and vital functions). Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours. Victim to lie down in the recovery position, cover and keep him warm. After swallowing: Possible administration of ethanol. Ethylene glycol is metabolized to oxalic acid. Symptoms of poisoning can be delayed by administering ethanol (in the form of a 5% solution in a physiological salt solution, to maintain a blood level of 1 - 2 mg/ml). This treatment is only effective when it is begun within 6 hours after exposure. In the case of emergency the effect of the simultaneously administered dosis of ethandiol and ethanol must be checked according to each individual case. Call a physician or Poison Control Centre immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂).
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: When heated or in the case of a fire, the formation of poisonous gases is possible.
Explosion hazard	: On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.
Reactivity in case of fire	: Can form dangerous decomposition products when exposed to high temperatures.
Hazardous decomposition products in case of fire	: Thermal decomposition generates : smoke, carbon oxides (CO, CO ₂), organic compounds (low molecular weight). Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Precautionary measures fire	: Move containers from fire area if it can be done without personal risk.
Firefighting instructions	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to the environment.



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Protection during firefighting	: Do not breathe in the vapours and combustion gases. In the event of fire, wear self-contained breathing apparatus. Complete protection suit and compressed air breathing apparatus. Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. Clothing for firefighters which comply with the European norm EN 469 (including helmet, protective boots, protective gloves) provide a basic protection for accident with chemicals.
Other information	: Contaminated extinguishing water and soil must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate personnel to a safe area. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Ensure adequate ventilation. Do not breathe in vapours and mist. Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Higher exposure : Self-contained breathing apparatus. Keep unprotected people away.
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6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent product from entering drains. Entry into rivers or surface water is to be prevented by the erection of barriers made of sand or earth or by other suitable barriers. Do not allow material to contaminate ground water system. Contact the responsible authority immediately if the product ends up in the soil, a body of water, or the sewer system.

6.3. Methods and material for containment and cleaning up

For containment	: Reduce vapour with fog or fine water spray. Large quantities: Seal discharge point, if possible without danger. Contain the product immediately by taking suitable action. Spilled or leaking material is to be soaked up with non-flammable absorbent materials (sand, soil, diatomaceous earth) and put in containers. In the event of large-scale leakage, pump into suitable and properly labeled containers. Small amounts: Wipe up with absorbent material (e.g. cloth, fleece). Articles impregnated with the product are to be disposed of immediately (cloth, paper, absorbent material). Clean contaminated surface thoroughly. Never return spills in original containers for reuse. Dispose of the material collected according to regulations.
Methods for cleaning up	: Wash contaminated area with large amounts of water. Dispose of rinse water in accordance with local and national regulations.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Keep product and empty container away from heat and sources of ignition. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Use a spark-free tool. Empty containers can contain flammable and explosive vapours. Empty containers must be completely drained to the state of the art before being disposed of. Avoid emptying into the drains.
Precautions for safe handling	: Provide adequate ventilation and/or exhaust ventilation. Do not breathe in vapours and mist. Keep away from heat. No compressed air use for filling, unloading or handling. Close container tightly after use. Take notice of the directions of use on the label. Avoid prolonged and intensive skin contact. Wear personal protective equipment. When handling the product, follow hygiene and safety precautions. Only to be handled by trained personnel.
Hygiene measures	: Women of child-bearing age should avoid contact with the product. (Specific medical surveillance). A high standard of personal hygiene is required. When using, do not eat, drink, or smoke. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from food, drink and animal food stuffs. Regular cleaning of equipment, work area and clothing. Eye wash fountains and safety showers must be easily accessible.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Facilities must be planned in such a way that contamination of the soil and groundwater is excluded.
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Storage conditions	: Store in compliance with the local regulations. Store in original container. Keep tightly closed in a dry, cool and well-ventilated place. Protect from heat and direct sunlight. Avoid contamination with incompatible materials.
Maximum storage period	: 36 months
Information on mixed storage	: Keep away from food, drink and animal food stuffs. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.
Storage area	: Keep locked-up. Smoking in the storage rooms is forbidden. Handle, store and transport in compliance with local regulations and in labelled containers that are suitable for this product.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

ethanediol; ethylene glycol (107-21-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylene glycol
IOEL TWA	52 mg/m ³
IOEL TWA [ppm]	20 ppm
IOEL STEL	104 mg/m ³
IOEL STEL [ppm]	40 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Ethane-1,2-diol
WEL TWA (OEL TWA) [1]	10 mg/m ³ particulate 52 mg/m ³ vapour
WEL TWA (OEL TWA) [2]	20 ppm vapour
WEL STEL (OEL STEL)	104 mg/m ³ vapour
WEL STEL (OEL STEL) [ppm]	40 ppm vapour
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Antifreeze Premix Longlife	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	106 mg/kg bodyweight/day
Long-term - local effects, inhalation	35 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, dermal	53 mg/kg bodyweight/day
Long-term - local effects, inhalation	7 mg/m ³



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Antifreeze Premix Longlife

DNEL/DMEL (additional information)

The data refer to	ethanediol; ethylene glycol
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PNEC (Water)

PNEC aqua (freshwater)	10 mg/l
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PNEC aqua (marine water)	1 mg/l
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PNEC aqua (intermittent, freshwater)	10 mg/l
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PNEC aqua (intermittent, marine water)	10 mg/l
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PNEC (Sediment)

PNEC sediment (freshwater)	37 mg/kg dwt
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PNEC sediment (marine water)	3.7 mg/kg dwt
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PNEC (Soil)

PNEC soil	1.53 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	199.5 mg/l
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PNEC (additional information)

The data refer to	ethanediol; ethylene glycol
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8.1.5. Control banding

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Provide sufficient air exchange and/or exhaust in work rooms. Follow the maximum workplace concentration values. If necessary: Local exhaust. When the concentration in the air is over the maximum occupational exposure limit, an approved respiratory protection apparatus must be worn. Electrical systems and equipment must comply with the regulations.

Personal protective equipment:

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment. Personal protection equipment should comply with the relevant standards, be suitable for purpose, in good condition and maintained as specified.

Hand protection:

Protective gloves. Protective gloves (according to European standard EN 374 or equivalent). Suitable materials even for lengthy direct contact (recommended: pursuant to safety index 6 >480 minutes permeation time pursuant to EN 374): neoprene, butyl rubber, nitrile rubber, viton. Layer thickness: 0.38 mm. Safety gloves should be selected for the actual conditions of use and in accordance with the instructions for use provided by the manufacturer. Please note that the daily use of a chemical glove in practice may be considerably shorter than the permeation time calculated in EN 374 as a result of many different factors (for example temperature). Use tested protective gloves. Protective gloves should be replaced immediately if damaged or in case of signs of wear.

Eye protection:

Safety glasses at risk of splashing. Protective goggles (EN 166). Use full face filter mask in the case of disorders of eyes as a result of exposure.

Skin and body protection:

In the case of long or repeated exposure, use protective clothing. Chemical resistant apron. Chemical-resistant safety shoes or boots. After use: Wash contaminated skin areas thoroughly with soap and water.

Respiratory protection:

Only use in well-ventilated areas. Breathing protection in the event of aerosol, mist or vapour formation. Breathing apparatus with filter. Respirator with A filter. Wear a mask for organic vapours. (EN 14387). If necessary: Self-contained breathing apparatus, preferably a compressed airline breathing apparatus. The respiratory protective equipment should be selected considering the local working conditions.

Personal protective equipment symbol(s):



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Thermal hazard protection:

On heating or during combustion : Heatproof clothing.

Environmental exposure controls:

Emission from ventilation and process equipment should be tested to make sure that it fulfils the requirements of environmental protection regulation.

Consumer exposure controls:

Women of child-bearing age should avoid contact with the product.

Other information:

Take all necessary technical measures to avoid or minimize the release of the product on the workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Blue-green.
Appearance	: Clear fluid.
Odour	: weakly.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: -26 °C (typical)
Boiling point	: 109 °C (estimated)
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: 398 °C (ethanediol; ethylene glycol)
Decomposition temperature	: Not available
pH	: 7.7 at 20 °C/(typical)
Viscosity, kinematic	: Not available
Solubility	: Miscible.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1.0645 kg/l at 20 °C/(typical)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available



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9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions are known under conditions of normal use.

10.4. Conditions to avoid

Keep away from heat and sources of ignition. Avoid contamination with incompatible materials. Keep away from foreign material that can cause a decomposition reaction.

10.5. Incompatible materials

Strong acids, strong oxidants. chlorates, nitrates, peroxides.

10.6. Hazardous decomposition products

To avoid thermal decomposition, do not overheat. Hazardous decomposition products: ketones, aldehydes. Ethylene glycol decomposes at 165 °C and releases among others glycolaldehyde, glyoxal, acetaldehyd, methan, formaldehyde, carbon monoxide and hydrogen.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Antifreeze Premix Longlife	
ATE CLP (oral)	625.078 mg/kg bodyweight
ethanediol; ethylene glycol (107-21-1)	
LD50 oral rat	7712 mg/kg bodyweight (male/female)
LD50 dermal	> 3500 mg/kg (mouse - female/male)
LC50 Inhalation - Rat	> 2.5 mg/l /6h - (male/female)
ATE CLP (oral)	500 mg/kg bodyweight
Skin corrosion/irritation	: Not classified pH: 7.7 at 20 °C/(typical)
Serious eye damage/irritation	: Not classified pH: 7.7 at 20 °C/(typical)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
ethanediol; ethylene glycol (107-21-1)	
NOAEL (chronic, oral, animal/male, 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.
ethanediol; ethylene glycol (107-21-1)	
STOT-repeated exposure	May cause damage to organs (kidneys) through prolonged or repeated exposure.
Target organ	kidneys
Application route	Ingestion (> 10 - 100 mg/kg bw)
Additional information	Repeated excessive exposure can adversely affect an existing kidney disease.
Aspiration hazard	: Not classified



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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms

: CAS: 107-21-1 Ethanediol: Effects due to ingestion may include: Ingestion may cause nausea and vomiting. Abdominal cramps. Danger of blindness. Liver and kidney damage may occur. May impair fertility and cause harm to the unborn child. Damage to central nervous system. Effects on following organs are reported: heart, lungs. Danger of metabolic acidosis. Swallowing can lead to lung oedema or pneumonia. Concentration above the admissible concentration at the workplace may cause dizziness, headache and inebriation. More severe effects (Shortness of breath, muscle twitching, spasm, unconsciousness, death) if excessive exposure. LD₅₀ (oral, human): approx. 100 ml. (Deadly dose). Inhalation of high vapour concentrations can cause CNS-depression and narcosis.

Toxicokinetics, metabolism and distribution

: Ethylene glycol is metabolized to oxalic acid.

Experience with humans

: Inhalation of vapours in high concentration may cause irritation of respiratory tract. (cough). Contact with eyes may cause irritation. Temporary irritation of the eyes possible. Prolonged or repeated contact may dry skin and cause irritation.

Other information

: Chronic (long-term) health effects may result from repeated overexposure.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)

: Not classified

Hazardous to the aquatic environment, long-term (chronic)

: Not classified

ethanediol; ethylene glycol (107-21-1)

LC50 - Fish [1]	72860 mg/l Pimephales promelas - (EPA 600/4-90/027)
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna (Water flea) - (OECD 202 method)
EC50 96h - Algae [2]	6500 – 13000 mg/l Raphidocelis subcapitata - (EPA 600/9-78-018)
ErC50 algae	Pseudokirchneriella subcapitata - (EPA 600/9-78-018)
NOEC (chronic)	≥ 1000 mg/l (23 d) - Americamysis bahia - (ASTM E-47.01/2)
NOEC chronic algae	> 100 mg/l Raphidocelis subcapitata - (OECD 201 method)

12.2. Persistence and degradability

ethanediol; ethylene glycol (107-21-1)

Persistence and degradability	Readily biodegradable, according to appropriate OECD test.
Biodegradation	> 90 % (10 d) - (OECD 301A method)

12.3. Bioaccumulative potential

ethanediol; ethylene glycol (107-21-1)

Partition coefficient n-octanol/water (Log Pow)	-1.36 (Quantitative structure-activity relationship (QSAR))
Bioaccumulative potential	Bioaccumulation is not expected to occur.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

ethanediol; ethylene glycol (107-21-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.
sodium molybdate dihydrate (10102-40-6)	Not applicable (inorganic compounds)

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects

: None known.

Additional information

: Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Sewage disposal recommendations	: Avoid direct discharge into drains.
Product/Packaging disposal recommendations	: Disposal in accordance with the official regulations. Where possible recycling is preferred to disposal or incineration. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact waste disposal services. The containers must be sealed, marked and disposed of safely. Packaging can be sent for recycling after being emptied and cleaned. Emptied containers can contain residues of product. Do not use unlabelled containers. Notes on reconditioning: The latest product label must remain on the packaging until the container has been reconditioned. This material and its container must be disposed of in a safe way. Should not be released into the environment.
Additional information	: Waste code numbers are a recommendation, since the intended use by the consumer allows a final assignment.
European List of Waste (LoW) code	: 16 01 14* - antifreeze fluids containing dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
not regulated	not regulated	not restricted	not regulated	not regulated
14.2. UN proper shipping name				
not regulated	not regulated	not restricted	not regulated	not regulated
14.3. Transport hazard class(es)				
not regulated	not regulated	not restricted	not regulated	not regulated
14.4. Packing group				
	-			
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable



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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Antifreeze Premix Longlife ; ethanediol; ethylene glycol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

VOC content : 0.13 % Decopaint Directive (2004/42/EC) - Annex II

Other information, restriction and prohibition regulations : Employment prohibitions and restrictions according to § 11 and § 12 MuSchG have to be observed. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Not subject to 2012/18/EU (SEVESO III)

15.1.2. National regulations

The national regulations have to be complied with as necessary.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

Indication of changes:

All chapters have been modified since the previous version.

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate
 DNEL = Derived No Effect Level
 PNEC = Predicted No-Effect Concentration
 NOEL = No Observed Effect Level
 NOEC = No-Observed-Effect-Concentration
 NOAEL = No Observed Adverse Effect Level
 LOAEL = Lowest Observed Adverse Effect Level
 SADT = Self-Accelerating decomposition temperature
 SVHC = substance of very high concern
 VOC = Volatile organic compounds
 IUCLID = International Uniform Chemical Information Database
 OECD = Organization for Economic Co-operation and Development
 RTECS = Registry of Toxic Effects of Chemical Substances
 RTECS = Registry of Toxic Effects of Chemical Substances
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 CLP = Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ECHA = European Chemicals Agency

Full text of H- and EUH-statements:

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



Antifreezes

Product Reference code:95599872

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Revision date: 5/29/2023 Supersedes version of: 5/18/2021 Version: 2.02

The classification complies with

: ATP 12

Other information :

The information is based on present levels of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The product is to be used exclusively for the applications named in the technical data sheet or in the processing instructions. Existing laws and regulations are the responsibility of the recipient of our products. The data of the hazardous ingredients were taken from the last relevant safety data sheet of the subcontractor.