



TECPO

Kühlerfrostschutz AG13+ rosa (-40 C°) Antifreeze_EN

Version number: 1.0
Issued: 2025-09-24

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

1.1. Product identifier

Trade name

TECPO Kühlerfrostschutz AG13+ rosa (-40 C°) Antifreeze_EN

Article No.

300262

UFI code

GUJT-PU4F-P00M-MW86

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

Relevant identified uses

Anti-freeze.

Not suitable for use in

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

SDS created by

Gefahrgutberatung Florian Herber, Erbigsweg 12, 36137 Großenlütder

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Supplier

TECPO GmbH

Address

Dreherstraße 16-20

42899 Remscheid

Germany

Telephone

+49 2191 951 3305

Email

info@tecpo.de

Fax

+49 2191 951 33044

Web site

www.tecpo.de

Contact person

Baris Ünsal

1.4. Emergency telephone number

Poison center/Additional emergency number

+49 (0) 89 19240 (Available 24/7) - Poison Emergency Call Munich (Available for the public.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Acute toxicity, oral, hazard category 4

Specific Target Organ Toxicity — Repeated exposure, hazard category 2

Hazard statements

H302, H373

Description

The product is classified and labeled according to the CLP regulation.



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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P260 Do not breathe Mist/vapor/aerosol.

P264 Wash hands thoroughly after handling.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor. if you feel unwell.

P501 Dispose of contents/container to dispose of in accordance with local / regional / national / international regulations..

More information

Packaging that is sold to the general public must be provided with a tactile hazard warning in accordance with EN ISO 11683, regardless of its capacity.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

The product does not contain any substances with endocrine-disrupting properties.

Other

Hazard-determining components of labeling:

Ethanediol

3,5,5-Trimethylhexanoic acid



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Specific concentra- tion limits ATE	Note
ethanediol	107-21-1 203-473-3 01-2119456816- 28 -	50 - <100%	Acute Tox. 4 - oral, STOT RE 2	H302, H373 - -		-
3,5,5-Trimethylhex- anoic acid	3302-10-1 221-975-0 - -	<10%	Acute Tox. 4 - oral, Eye Irrit. 2	H302, H319 - -		-

Product based on

Mixture of the substances listed below with additives not subject to labeling.

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If symptoms occur or in case of doubt, seek medical advice.

Inhalation

Supply fresh air, consult a doctor in case of complaints.

Skin contact

Wash off immediately with soap and water and rinse thoroughly.

Take off contaminated clothing and wash it before reuse. If skin irritation persists, consult a doctor.

Eye contact

Keep eyelids open and rinse thoroughly with clean, running water for at least 15 minutes.

Remove existing contact lenses if possible. Consult a doctor if symptoms persist.

Ingestion

Rinse out mouth and drink plenty of water. Consult a doctor immediately.



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

Risk of kidney damage.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing powder, foam or water spray. Fight larger fires with a water spray jet or alcohol-resistant foam. Adapt fire extinguishing measures to the surroundings.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Inhalation of fire fumes can cause serious damage to health.

Can be released in the event of a fire:

Carbon monoxide and carbon dioxide

5.3. Advice for firefighters

Special protective equipment for fire-fighters

If possible, remove stored goods from the fire zone.

Wear self-contained breathing apparatus. Wear a chemical protection suit.

Cool closed containers near the source of the fire with water. Collect contaminated extinguishing water separately and do not allow it to enter the sewage system.

Ensure sufficient extinguishing water retention. Dispose of contaminated extinguishing water in accordance with official regulations.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Note the risk of slipping.

Ensure adequate ventilation.

Wear personal protective equipment.

Bring people to safety.

Staff not trained for emergencies: Avoid contact with product.

Use suitable personal protective equipment (see SECTION 8).

6.2. Environmental precautions

Do not allow to enter drains/surface water/ground water. Do not allow to enter the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder).

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation. Clean with water.

6.4. Reference to other sections

See SECTIONS 7+8+13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Ensure good ventilation/extraction at the workplace.

Use suitable personal protective equipment (see SECTION 8).

Avoid aerosol formation. Do not inhale gases/vapors/aerosols.

Notes on fire and explosion protection:

Keep away from heat, sparks and naked flames.

General hygiene

Do not eat, drink, smoke or take snuff at work. Wash hands before breaks and at the end of work.

Used clothing should not be worn outside the work area.



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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers:

Store only in the original container. Carefully close opened containers and store them upright to prevent any leakage.

Storage instructions:

Do not store together with oxidizing or self-igniting substances.

Further information on storage conditions:

Store in a cool, dry place in tightly closed containers. Keep away from heat and direct sunlight.

Store container in a well-ventilated place.

Storage between 0 and 40 °C.

Storage class according to TRGS 510: 10 - Flammable liquids that cannot be assigned to any of the aforementioned LGKs

7.3. Specific end use(s)

There is no information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
ethanediol	107-21-1 203-473-3	10 / 26 /	- / - /	AGW	2(I); FDG, EU, H, Y, 11	-
ethanediol	107-21-1 203-473-3	20 / 52 /	40 / 104 /	IOELV (EU)		-

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
ethanediol (107-21-1/203-473-3)	DNEL	Acute (short term) Inhalation	35 mg/m ³	Workers	Local



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Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
ethanediol (107-21-1/203-473-3)	DNEL	Chronic (long term) Dermal	106 mg/kg bw/day	Workers	Systemic
ethanediol (107-21-1/203-473-3)	DNEL	Acute (short term) Inhalation	7 mg/m ³	Consumers	Local
ethanediol (107-21-1/203-473-3)	DNEL	Chronic (long term) Dermal	53 mg/kg bw/day	Consumers	Systemic

8.2. Exposure controls

Eye / face protection

Goggles/face shield are recommended.

Hand protection

No special measures required if used properly. Protective gloves are recommended for frequent and/or prolonged skin contact with the product. To avoid skin problems, gloves should be worn as little as possible.

Glove material:

Nitrile rubber

Selection of the glove material taking into account breakthrough times, permeation rates and degradation.

Penetration time of the glove material:

With a layer thickness of 0.4 mm, the penetration time is greater than 480 minutes. The exact breakthrough time can be obtained from the protective glove manufacturer and must be adhered to.

Other skin protection

Not required if used as intended.

Respiratory protection

Not necessary if the room is well ventilated.

For short-term or low exposure use breathing filter device; for intensive or prolonged exposure use self-contained breathing apparatus.

Filter A/P2



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Violet.

Odour

Characteristic.

Odour threshold

Not determined.

Melting point / freezing point

Not determined.

Boiling point or initial boiling point and boiling range

197,4 °C

Flammability

Not applicable.

Lower and upper explosion limit

Lower: 3.2 vol-%; Upper: 53 vol-% (107-21-1 ethanediol)

Flash point

111 °C

Auto-ignition temperature

398 °C

Decomposition temperature

Not determined.

pH

Neutral

Kinematic viscosity

Not determined.

Viscosity, dynamic

Not determined.



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Solubility

No data available

Water solubility

Fully miscible

Partition coefficient n-octanol/water

Not determined.

Vapour pressure

Not determined.

Density and/or relative density

Not determined.

Relative density

Not determined.

Relative vapour density

Not determined.

Evaporation Rate

Not determined.

Explosive properties

The product is not potentially explosive.

Oxidising properties

Not applicable.

Particle characteristics

No data available

9.2. Other information

The product is not self-igniting.

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

No decomposition when used as intended. Protect from humidity and water.



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10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

Strong oxidising substances, strong acids and strong bases.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

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

ATE Oral LD50: 514 - 526 mg/kg

Acute toxicity

Harmful if swallowed.

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline
ethanediol 107-21-1 / 203-473-3	LD50	7712 mg/kg	Oral	Rat	-
ethanediol 107-21-1 / 203-473-3	LD50	>3500 mg/kg	Dermal	Mouse	-
3,5,5-Trimethylhex- anoic acid 3302-10-1 / 221- 975-0	LD50	1160 mg/kg	Oral	Rat	OECD 401

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.



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Respiratory or skin sensitisation

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.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

May cause damage to kidneys through prolonged or repeated exposure. Route of exposure: Ingestion.

Product / Substance name CAS / EC no.	Exposure route	Value / Dose	Species	Exposure time / Exposure frequency	Method / Guideline
ethanediol 107-21-1 / 203-473-3	Oral	150 mg/kg bw/day	Rat	90 days	NOAEL OECD 408

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity



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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
ethanediol 107-21-1 / 203-473-3	LC50	72860 mg/l	96 hours	Pimephales promelas (Fat-head Minnow)

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
ethanediol 107-21-1 / 203-473-3	EC50	6500 - 13000 mg/l	96 hours	Pseudokirchneriella sub- capitata

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
ethanediol 107-21-1 / 203-473-3	EC50	> 100 mg/l	48 hours	Daphnia magna

Micro-/macro organism toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
ethanediol 107-21-1 / 203-473-3	EC50	> 10000 mg/l	16 hours	Pseudomonas putida

12.2. Persistence and degradability

The product is biodegradable.

12.3. Bioaccumulative potential

Low bioaccumulation potential

12.4. Mobility in soil

Mobility

No further relevant information available.



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12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

12.7. Other adverse effects

No further relevant information available.

Other

Do not allow undiluted product or large quantities of it to enter groundwater, watercourses or drains.
into the sewage system.

German Water Class

WGK1 - slightly water endangering

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

The mentioned waste codes are recommendations based on the expected use of the product.
Must not be disposed of together with household waste. Do not allow to enter drains.

Packaging

Cleaned packaging must be returned to the local recycling system.
The packaging must be disposed of in accordance with the Packaging Act.
Contaminated packaging must be disposed of in the same way as the substance.
Non-contaminated packaging can be recycled.
Recommended cleaning agent: Water, if necessary with the addition of cleaning agents.

Waste code	Waste description
16 01 14*	antifreeze fluids containing hazardous substances

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number

No dangerous goods in the sense of these transport regulations.



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14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

No dangerous goods in the sense of these transport regulations.

14.3. Transport hazard class(es)

Label

No dangerous goods in the sense of these transport regulations.

ADR / RID Class

No dangerous goods in the sense of these transport regulations.

ADR / RID Classification code

No dangerous goods in the sense of these transport regulations.

ADR / RID hazard identification number

No dangerous goods in the sense of these transport regulations.

IMDG Class

No dangerous goods in the sense of these transport regulations.

14.4. Packing group

No dangerous goods in the sense of these transport regulations.

14.5. Environmental hazards

Not applicable.

IMDG Marine Pollutant

Not applicable.

14.6. Special precautions for user

Not applicable.

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

EU regulations

Directive 2012/18/EU - Named dangerous substances - ANNEX I

None of the ingredients are included.

Annex XVII (REACH): The product is subject to the following restrictions according to Annex XVII,
Regulation (EC) 1907/2006 (REACH): 3

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and
electronic equipment - Annex II

None of the ingredients are included.

Regulation (EU) 2019/1148

Annex I - Restricted explosives precursors

None of the ingredients are included.

Annex II - Reportable explosives precursors

None of the ingredients are included.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients are included.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community
and third countries in drug substitutes

None of the ingredients are included.



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National regulations

Notes on employment restrictions: Observe employment restrictions for young people.

Water hazard classification : 1 - slightly water endangering

Storage class according to TRGS 510: 10 - Flammable liquids that cannot be assigned to any of the aforementioned LGKs

Substances of Very High Concern (SVHC) according to REACH, Article 57:
None of the ingredients are included.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.



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SECTION 16: Other information

Abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW - Occupational Exposure Limit (Arbeitsplatzgrenzwert)
ATE - Acute Toxicity Estimate
AwSV - Ordinance on Installations for Handling Substances Hazardous to Water
C&L - Einstufung und Kennzeichnung
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSR - Chemical Safety Report
DNEL - Derived No Effect Level
ECHA - European Chemicals Agency
GefStoffV - Hazardous Substances Ordinance (Gefahrstoffverordnung)
GHS - Globally Harmonized System
IMDG - International Maritime Dangerous Goods
International Air Transport Association
IUCLID - International Uniform Chemical Information Database
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LGK - Storage Class (Lagerklasse)
OEL - Occupational Exposure Lim
PBT - Persistent, Bioaccumulative and Toxic substance
PNEC - Predicted No Effect Concentration(s)
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
SCBA - Self-Contained Breathing Apparatus
STOT - Specific Target Organ Toxicity
SVHC - Substances of Very High Concern
TRGS - Technische Regeln für Gefahrstoffe
UFI - Unique Formula Identifier
vPvB - Very Persistent and Very Bioaccumulative
WGK - Water Hazard Class (Wassergefährdungsklasse)



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Phrase meaning

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

STOT RE 2 - Specific Target Organ Toxicity — Repeated exposure, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure

Other

Additional information

The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. The recipient of our products is responsible for observing existing laws and regulations. The information in this safety data sheet corresponds to the best of our knowledge at the time of printing. The information is intended to provide you with guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. If the product is mixed, blended or processed with other materials processed or subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

Manufacturer's notes

The data of the relevant components were taken from the latest safety data sheet of the upstream supplier.