

Safety Data Sheet

in accordance with Regulation (EU) No. 453/2010

Trade name: Monoethylenglykol
No.: 6170, 6171

Print date: 08.07.2015
Valid from: 01.07.2015

Version: 5 - 1 / EU



1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification of the substance/mixture

Product name: **Monoethylenglykol**
No.: **6170, 6171**
EC No: see section 3.
CAS No: see section 3.
REACH Registration No: see section 3.

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

Relevant identified uses:
Industry sector: Functional Fluids
Type of use: Brine for refrigeration

1.3 Identification of the company/supplier

Supplier:
Peter HUBER Kältemaschinenbau AG

Street:
Werner-von-Siemens-Str. 1

Postal code:
DE-77656 Offenburg

Contact for technical information

Technical Support
Tel.: +49 (0) 781 9603-244
Fax: +49 (0) 781 57211
Email: info@huber-online.com

1.4 Emergency telephone number

008000-5121 5121 (24 h)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Hazard class	Hazard category	H-phrase
Acute toxicity	Category 4	Harmful if swallowed
Specific target organ toxicity - repeated exposure	Category 2	May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Hazard pictograms



Signal word
Warning

Hazard statements

H302
H373

Harmful if swallowed
May cause damage to organs through prolonged or repeated exposure

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Precautionary statements

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray
P264 Wash skin thoroughly after handling
P280 Wear protective gloves/ protective clothing/ eye protection/face protection
P314 Get medical advice/ attention if you feel unwell
P337 + P313 If eye irritation persists: Get medical advice/ attention
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

No additional hazards are known except those derived from the labelling.

3. Composition/information on ingredients

3.1 Mixtures

Chemical characterization

Monoethylene glycol (1,2-ethane diol) with corrosion inhibitors.

Hazardous ingredients

Ethandiol

Concentration: $\geq 90 - \leq 95$ %
CAS number 107-21-1
EC number: 203-473-3
Index Number 603-027-00-1

REACH - Registration number according to article 20(3): 01-2119456816-28, 01-2119456816-28-0000, 01-2119456816-28-0003, 01-2119456816-28-XXXX

GHS classification EC

Specific target organ toxicity - Repeated exposure	Category 2	H373
Acute toxicity	Category 4	H302

The text of the H-phrases is shown in section 16.

4. First aid measures

4.1 Description of first aid measures

General information

Remove/Take off immediately all contaminated clothing.

After inhalation

Get medical attention if symptoms occur.

After contact with skin

In case of contact, immediately flush skin with plenty of water.

After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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After ingestion

Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

No symptoms known currently.

Hazards

No hazards known at this time.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet, Alcohol-resistant foam, Carbon dioxide (CO₂), Dry powder.

5.2 Special hazards arising from the substance or mixture

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO). Nitrous gases (NO_x).

5.3 Advice for firefighters

Special protective equipment for firefighting

Use self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Wear suitable personal protective equipment.

6.2 Environmental precautions

Do not allow to enter drains or waterways.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Can be landfilled or incinerated, when in compliance with local regulations.

6.4 Reference to other sections

Additional information

Information regarding Safe handling, see chapter 7.
For personal protection see section 8.
Information regarding Waste Disposal, see chapter 13.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Handle and open container with care.
Provide adequate ventilation.

Hygiene measures

Keep away from food and drink.

Advice on protection against fire and explosion

Observe the general rules of industrial fire protection.

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7.2 Conditions for safe storage, including any incompatibilities

Advice on storage compatibility

Do not store with alkalis.
Do not store with strong oxidizing agents.

7.3 Specific end use(s)

No further recommendations.

8. Exposure controls/personal protection

8.1 Control parameters

Exposure limit values

Ethylene glycol
EC number: 203-473-3
CAS number: 107-21-1

Regulatory basis / Regulatory list	Revision	Type of value	Values	Remarks
Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values	2009-12-19	Limit Value - eight hours	52 mg/m ³ 20 ppm	
Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values	2009-12-19	Short term exposure limit	104 mg/m ³ 40 ppm	

DNEL/DMEL values

Ethanediol
EC number: 203-473-3
CAS number: 107-21-1

Route of exposure	Personnel	Exposure time/Effect	Value	Remarks
Dermal	Worker	Long-term systemic effects	106 mg/kg bw/day	DNEL
Inhalation	Worker	Long-term local effects	35 mg/m ³	DNEL
Dermal	General population	Long-term systemic effects	53 mg/kg bw/day	DNEL
Inhalation	General population	Long-term local effects	7 mg/m ³	

PNEC values

Ethanediol
EC number: 203-473-3
CAS number: 107-21-1

Environmental compartment	Personnel/Exposure time/Effect	Value
Fresh water		10 mg/l
Salt water		1 mg/l
Water (intermittent release)		10 mg/l
Fresh water sediment		20,9 mg/kg dry weight (d.w.)
Soil		1,53 mg/kg dry weight (d.w.)
Sewage treatment plant		199,5 mg/l

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8.2 Exposure controls

General protective measures

Do not inhale vapours.
Avoid contact with eyes and skin.

Respiratory protection

Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure.
Full mask to standard DIN EN 136 Filter A (organic gases and vapours) to standard DIN EN 141.
The use of filter apparatus presupposes that the environment atmosphere contains at least 17% oxygen by volume, and does not exceed the maximum gas concentration, usually 0.5% by volume.
Relevant guidelines to be considered include EN 136/141/143/371/372 as well as other national regulations.

Hand protection

Long-term exposure
Impervious butyl rubber gloves
Minimum breakthrough time / gloves : 480 min
Minimum thickness / gloves 0,7 mm
For short-term exposure (splash protection):
Nitrile rubber gloves.
Minimum breakthrough time / gloves : 30 min
Minimum thickness / gloves 0,4 mm
These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

Eye protection

Depending on the risk, wear sufficient eye protection (safety glasses with side protection or goggles, and if necessary, face shield.)

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state :	Liquid
Form :	Liquid
Particle size :	Not applicable
Colour :	Yellow
Odour :	Slightly perceptible
Odour threshold :	Not tested
pH value :	approx. 8 (20 °C, 100 g/l) Method : DIN 19268
Melting point :	-32 °C Method : DIN 51583
Boiling point :	approx. 165 °C (1.013 mbar) Method : ASTM D 1120
Flash point :	119 °C Method : ASTM D6450 (closed cup)
Evaporation rate :	Not tested
Lower explosion limit :	3 %(V) Data relate to solvent
Upper explosive limit :	Not tested
Combustion number :	Not applicable
Minimum ignition energy :	Not tested
Vapour pressure :	< 0,01 kPa (20 °C) Method : Calculated by Syracuse
Vapour density relative to air :	Not tested
Solubility in water :	(20 °C) completely miscible
Soluble in ... :	Fat Not tested

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Octanol/water partition coefficient (log Pow) :	Not applicable
Ignition temperature :	> 400 °C Method : DIN 51794
Self-ignition temperature :	Not applicable
Thermal decomposition :	> 300 °C Method : DSC Measurement under nitrogen No decomposition up to 300 °C.
Viscosity (dynamic) :	20,3 mPa.s (20 °C)
Viscosity (kinematic) :	20,3 mm ² /s (20 °C) Method : DIN 51562
Explosive properties :	Explosive according to EU supply regulations : Not explosive Method : Expert judgement
Oxidizing properties :	Type of oxidizing effect : The substance or mixture is not classified as oxidizing. Method : Expert judgement

9.2 Other information

Density:	1,1138 g/cm ³ (20 °C) Method : DIN 51757
Bulk density:	Not applicable.
Surface tension:	33,8 mN/m
Further information:	The product is hygroscopic.

10. Stability and reactivity

10.1 Reactivity

See section 10.3. "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Reactions with alkalis.
Reactions with oxidising agents.
Stable

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

When handled and stored appropriately, no dangerous decomposition products are known.

11. Toxicological information

11.1 Information on toxicological effects

Information related to the product itself

Acute oral toxicity :	Acute toxicity estimate 519,54 mg/kg Method : Calculation method
Acute dermal toxicity :	LD50 > 3.500 mg/kg (Mouse) Information refers to the main component
Acute inhalation toxicity :	LC50 > 2,5 mg/l (6 h, Rat) Information refers to the main component

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Irritant effect on skin :	No skin irritation (Rabbit) Information refers to the main component
Irritant effect on eyes :	Not tested
Sensitization :	Non-sensitizing (Guinea pig) Method : Magnusson/Kligman Information refers to the main component
Repeated dose toxicity:	Route of application: oral (gavage) NOAEL: 200 mg/kg (Rat, male and female) Method : OECD Test Guideline 407 Route of application: oral (feed) NOAEL: 150 mg/kg (Rat, male) Method : OECD Test Guideline 408 Route of application: Dermal NOAEL: 2,22 mg/kg (Dog, male) Method : OECD Test Guideline 410 Information refers to the main component
Assessment of mutagenicity :	It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests. Information refers to the main component
Assessment of carcinogenicity :	No evidence of carcinogenicity in animal studies Information refers to the main component
Assessment of toxicity to reproduction :	No reproductive toxicity to be expected
Assessment of teratogenicity :	No indications of toxic effects were observed in reproduction studies in animals. Information refers to the main component
Specific target organ toxicity (STOT) - single exposure :	Not tested
Specific target organ toxicity (STOT) - repeated exposure :	Not tested
Aspiration hazard :	No data available
Remarks	Kidney injury may occur. Poisoning affects the central nervous system. The classification was made by the conventional (calculation) method of the CLP Regulation (EC) No 1272/2008.
Information related to the component: Ethanediol	
Acute oral toxicity :	LD50 22.000 mg/kg (Rat) Method : Other
Acute dermal toxicity :	LD50 > 3.500 mg/kg (Mouse) Method : Other
Acute inhalation toxicity :	LC50 > 2,5 mg/l (6 h, Rat) Method : Other
Irritant effect on skin :	No skin irritation (20 h, Rabbit) Method : BASF test Source : European Chemicals Agency (ECHA)
Irritant effect on eyes :	Non-irritant (24 h, rabbit eye) Method : BASF test Source : European Chemicals Agency (ECHA)
Sensitization :	Does not cause skin sensitisation. (Guinea pig) Method : OECD Test Guideline 406 Source : European Chemicals Agency (ECHA)
Repeated dose toxicity:	Route of application: oral (feed) NOAEL: 150 mg/kg (Exposure time : 16 w, Frequency of treatment: daily, Dose: 50 - 150 - 500 - 1000 mg/kg, Rat, male) Method : OECD Test Guideline 408 Source : European Chemicals Agency (ECHA) Route of application: Skin contact NOAEL: ca. 2.200 mg/kg (Exposure time : 4 w, Frequency of treatment: daily, Dose: 0,5 - 2 - 8 ml/kg, Dog, male) Method : OECD Test Guideline 410 Source : European Chemicals Agency (ECHA)

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Genetic toxicity in vivo :

Dominant lethal assay
Rat (Fischer F344, male and female) oral (feed) 3 generation
40 - 200 - 1000 mg/kg
Method : Other
Source : literature
Negative

Genetic toxicity in vitro :

Test type : Ames test
Test system : Salmonella typhimurium
Concentration : 33 - 5000 µg/plate
Metabolic activation : with and without
Result : negative
Method : OECD Test Guideline 471
Source : European Chemicals Agency (ECHA)

Test type : Ames test
Test system : Escherichia coli
Concentration : 33 - 5000 µg/plate
Metabolic activation : with and without
Result : negative
Method : OECD Test Guideline 471

Assessment of mutagenicity :

Source : European Chemicals Agency (ECHA)
It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests

Assessment of carcinogenicity :

Not classifiable as a human carcinogen

Developmental toxicity/teratogenicity :

Route of application: oral (gavage)
NOAEL: 500 mg/kg (Exposure time : gestation day 6-15,
Frequency of treatment: daily, Dose: 150 - 500 - 1000 - 2500
mg/kg, Rat)
NOAEL (maternal): 1.000 mg/kg (Exposure time : gestation
day 6-15, Frequency of treatment: daily, Dose: 150 - 500 -
1000 - 2500 mg/kg, Rat)
Method : Other
Source : literature

Toxicity to reproduction/fertility :

NOAEL parent: > 1.000 mg/kg (Frequency of treatment: daily,
Test duration: 3 generations, Dose: 40 - 200 - 1000, Rat, male
and female)
NOAEL F1: > 1.000 mg/kg (Frequency of treatment: daily,
Test duration: 3 generations, Dose: 40 - 200 - 1000, Rat, male
and female)
NOAEL F2: > 1.000 mg/kg (Frequency of treatment: daily,
Test duration: 3 generations, Dose: 40 - 200 - 1000, Rat, male
and female)
Method : Other
Source : literature

Assessment of toxicity to reproduction :

No reproductive toxicity to be expected

Assessment of teratogenicity :

No teratogenic effects to be expected

Specific target organ toxicity (STOT) - single exposure :

Assessment : The substance or mixture is not classified
as specific target organ toxicant, single exposure

Specific target organ toxicity (STOT) - repeated exposure :

Target organs : Kidney

Assessment : May cause damage to organs through
prolonged or repeated exposure
No aspiration toxicity classification

Aspiration hazard :

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12. Ecological information

12.1 Toxicity

Information related to the product itself

Fish toxicity:	LC0 1.000 mg/l (Leuciscus idus (Golden orfe)) LL50 > 100 mg/l (96 h, Danio rerio (zebra fish)) Method : OECD Test Guideline 203 By analogy with a product of similar composition
Daphnia toxicity:	EC50 > 100 mg/l (48 h, Daphnia magna (Water flea)) Method : OECD Test Guideline 202 Information refers to the main component
Algae toxicity:	EC50 6.500 - 13.000 mg/l (96 h, Selenastrum capricornutum (green algae)) Information refers to the main component
Bacteria toxicity:	EC20 > 1.995 mg/l (30 min, activated sludge) Method : ISO 8192 Information refers to the main component
Information related to the component: Ethanediol	
Fish toxicity :	LC50 72.860 mg/l (96 h, Pimephales promelas (fathead minnow)) Method : EPA Source : European Chemicals Agency (ECHA) The details of the toxic effect relate to the nominal concentration
Fish toxicity (chronic) :	Chronic Toxicity Value 2.629 mg/l (30 d, Fish) Method : Other Source : European Chemicals Agency (ECHA) The details of the toxic effect relate to the nominal concentration
Daphnia toxicity :	EC50 > 100 mg/l (48 h, Daphnia magna (Water flea)) Method : OECD Test Guideline 202 Source : European Chemicals Agency (ECHA)
Daphnia toxicity (chronic) :	NOEC 8.590 mg/l (7 d, Ceriodaphnia spec.) Analytical monitoring : yes Method : Other Source : literature The details of the toxic effect relate to the nominal concentration
Algae toxicity :	EC50 3.536 mg/l (96 h, Chlamydomonas angulosa. Green algae) Method : Estimated (Ecosar) Source : European Chemicals Agency (ECHA)
Bacteria toxicity :	EC20 > 1.995 mg/l (0,5 h, activated sludge, domestic) Method : ISO 8192 Source : European Chemicals Agency (ECHA) By analogy with a product of similar composition
Toxicity to soil-dwelling organisms :	The study is not necessary from a scientific perspective
Toxicity to terrestrial plants :	The study is not necessary from a scientific perspective
Toxicity to other environmentally relevant organisms :	The study is not necessary from a scientific perspective
Sediment toxicity :	The study is not necessary from a scientific perspective

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12.2 Persistence and degradability

Information related to the product itself:

Biodegradability :

90 - 100 % (10 d)

Method : OECD Test Guideline 301A

Readily biodegradable, according to appropriate OECD test.

Information refers to the main component

Information related to the component: Ethanediol

Biodegradability :

90 - 100 % (10 d, DOC decrease)

Readily biodegradable

Method : OECD Test Guideline 301A

Source : European Chemicals Agency (ECHA)

12.3 Bioaccumulative potential

Information related to the product itself:

Biodegradability :

Not tested

Information related to the component: Ethanediol

Biodegradability :

Due to the low logPow bioaccumulation is not expected

12.4 Mobility in soil

Information related to the product itself:

**Transport and distribution
between environmental
compartments :**

Not tested

Information related to the component: Ethanediol

**Transport and distribution
between environmental
compartments :**

Adsorption/Soil (water - soil)

log Koc : 0

Method : other (calculated)

Source : European Chemicals Agency (ECHA)

Behaviour in environmental compartments :

Not available

12.5 Results of PBT and vPvB assessment

Information related to the product itself

After consideration of all available toxicity and ecotoxicity data it is concluded that the substance does not fulfil the PBT or vPvB criteria.

Information refers to the main component

Information related to the component: Ethanediol

This substance is not considered to be persistent, bioaccumulating and toxic (PBT)

12.6 Other adverse effects

Information related to the product itself:

Additional ecotoxicological remarks

If handled correctly it causes no disturbance in treatment plants.

The classification was made by the conventional (calculation) method of the CLP Regulation (EC) No 1272/2008.

Information related to the component: Ethanediol

Additional ecotoxicological remarks

Do not allow to enter ground water, waterways or waste water.

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13. Disposal considerations

13.1 Waste treatment methods

Product

Dispose of in accordance with local regulations.

Uncleaned packaging

Uncontaminated packaging may be reused.

Packaging that cannot be cleaned should be disposed of as product waste.

14. Transport information

Section 14.1. to 14.5.

ADR	not restricted.
ADN	not restricted.
RID	not restricted.
IATA	not restricted.
IMDG	not restricted.

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code (International Bulk Chemicals Code)

No transport as bulk according IBC - Code.

15. Regulatory information

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

Volatile organic compounds (VOC) :

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds
Evaluation: According to the composition the product contains no VOC component as defined by Directive 1999/13/EC.

Volatile organic compounds (VOC) :

Directive 2004/42/EC
Evaluation: According to the composition, the product contains no VOC components as defined by Directive 2004/42/EC.

Other regulations :

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2 Chemical safety assessment

Chemical Safety Assessments (CSAs) are available for one or more of the component substances contained in this product.

16. Other information

Observe national and local legal requirements

List of the text of the hazard statements mentioned section 3 (H-phrases):

H302	Harmful if swallowed
H373	May cause damage to organs through prolonged or repeated exposure

Legend

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
AOX	Adsorbable organic bound halogens
CAS	Chemical Abstracts Service
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level

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EC50	Half maximal effective concentration
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	Non Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
PEC	Predicted Environmental Concentration
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Rule for Transport of Dangerous Substances by Railway
SVHC	Substances of Very High Concern
vPvB	very Persistent and very Bioaccumulative

Decimal notation: "thousands" places are identified with a dot (for example, "2.000 mg/kg" means "two thousand mg/kg").
Decimal places are identified with a comma (for example, "1,35 g/cm³" means "one point three five g/cm³").

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