

MATERIAL SAFETY DATA SHEET

Page 1/8

according to 453/2010/EC

Printing date 28.04.2015



Version number 9

Revision: 04.03.2015

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

- **1.1 Product identifier**
- **Trade name** PROCYCLE Kühlflüssigkeit
- **Article number:** 2811106
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Functional fluid/engine coolant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Detlev Louis
Motorrad-Vertriebsgesellschaft mbH
Rungedamm 35
D-21035 Hamburg
Tel.: 0049-(0)40/734 193 60
Fax: 0049-(0)40/431 193 47
www.louis.de
order@louis.de
- **Informing department:** Herr Matthias Berschik
- **1.4 Emergency telephone number:** Während der Geschäftszeiten: 0049-(0)40/734 193 319

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 GHS08 health hazard
Repr. 1B H360 May damage fertility or the unborn child.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 Xn; Harmful
R22: Harmful if swallowed.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
ethane-1,2-diol
- **Hazard statements**
H360 May damage fertility or the unborn child.

(Contd. on page 2)

MATERIAL SAFETY DATA SHEET

Page 2/8

according to 453/2010/EC

Printing date 28.04.2015

Version number 9

Revision: 04.03.2015

Trade name PROCYCLE Kühlflüssigkeit

(Contd. of page 1)

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.
- P103 Read label before use.
- P280 Wear protective gloves / eye protection.
- P202 Do not handle until all safety precautions have been read and understood.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**





- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture of glycol, water, additives, Bitrex and dye

· **Dangerous components:**

CAS: 107-21-1 EINECS: 203-473-3	ethane-1,2-diol  Xn R22 STOT RE 2, H373; Acute Tox. 4, H302	25-50%
CAS: 111-46-6 EINECS: 203-872-2	2,2'-oxybisethanol  Xn R22 STOT RE 2, H373; Acute Tox. 4, H302	< 5%
CAS: 12179-04-3 EINECS: 215-540-4	disodium tetraborate pentahydrate  T Repr. Cat. 2 R60-61;  Xi R36 Repr. 1B, H360FD	< 1.5%

· **SVHC**

12179-04-3	disodium tetraborate pentahydrate
------------	-----------------------------------

- **Additional information** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

- **After inhaling** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** The product is generally no skin irritant.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Seek immediate medical advice.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

GB

(Contd. on page 3)

MATERIAL SAFETY DATA SHEET

Page 3/8

according to 453/2010/EC

Printing date 28.04.2015

Version number 9

Revision: 04.03.2015

Trade name PROCYCLE Kühlflüssigkeit

(Contd. of page 2)

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
- **6.2 Environmental precautions:**
Dilute with much water.
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/suction at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class** 10 (VCI Germany)
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

(Contd. on page 4)

MATERIAL SAFETY DATA SHEET

Page 4/8

according to 453/2010/EC

Printing date 28.04.2015

Version number 9

Revision: 04.03.2015

Trade name PROCYCLE Kühlflüssigkeit

(Contd. of page 3)

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

107-21-1 ethane-1,2-diol (25-50%)

WEL	Short-term value: 104** mg/m ³ , 40** ppm Long-term value: 10* 52** mg/m ³ , 20** ppm Sk *particulate **vapour
-----	--

111-46-6 2,2'-oxybisethanol (< 5%)

WEL	Long-term value: 101 mg/m ³ , 23 ppm
-----	---

· **Additional information:** The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Use skin protection cream for preventive skin protection.

· **Breathing equipment:** Not necessary if room is well ventilated.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Under normal working conditions: Butyl rubber, NBR or PVC, regularly change!

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Protective goggles recommended during refilling.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Colour:	Blue
Smell:	Characteristic
Odour threshold:	Not determined.

· pH-value:	Not determined.
-------------	-----------------

· Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	> 100 °C

· Flash point:	Not applicable
----------------	----------------

· Inflammability (solid, gaseous)	Not applicable.
-----------------------------------	-----------------

(Contd. on page 5)

MATERIAL SAFETY DATA SHEET

Page 5/8

according to 453/2010/EC

Printing date 28.04.2015

Version number 9

Revision: 04.03.2015

Trade name PROCYCLE Kühlflüssigkeit

(Contd. of page 4)

· Ignition temperature:	410 °C
· Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive.
· Critical values for explosion:	
Lower:	3.2 Vol %
Upper:	53.0 Vol %
· Steam pressure at 20 °C:	0.1 hPa
· Density at 20 °C	1.075 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible
· Segregation coefficient (n-octanole/water):	Not determined.
· Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
· Solvent content:	
Organic solvents:	4.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: None

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:

· LD/LC50 values relevant for classification:

107-21-1 ethane-1,2-diol

Oral	LD50	5840 mg/kg (rat)
------	------	------------------

Dermal	LD50	9530 mg/kg (rbt)
--------	------	------------------

- Primary irritant effect:
- on the skin: No irritant effect.

(Contd. on page 6)

MATERIAL SAFETY DATA SHEET

Page 6/8

according to 453/2010/EC

Printing date 28.04.2015

Version number 9

Revision: 04.03.2015

Trade name PROCYCLE Kühlflüssigkeit

(Contd. of page 5)

- **on the eye:** No irritant effect.
- **Sensitisation:** No sensitizing effect known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Harmful
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
Repr. 1B

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Easily biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01 00	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 14*	antifreeze fluids containing dangerous substances

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, ADN, IMDG, IATA** Void
- **14.2 UN proper shipping name**
- **ADR, ADN, IMDG, IATA** Void

(Contd. on page 7)

MATERIAL SAFETY DATA SHEET

Page 7/8

according to 453/2010/EC

Printing date 28.04.2015

Version number 9

Revision: 04.03.2015

Trade name PROCYCLE Kühlflüssigkeit

(Contd. of page 6)

· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	No dangerous goods in accordance with the above orders

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**

· Substances of very high concern (SVHC) according to REACH, Article 57

12179-04-3 | disodium tetraborate pentahydrate

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H302 Harmful if swallowed.

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R60 May impair fertility.

R61 May cause harm to the unborn child.

- **Contact:** Herr Matthias Berschik

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

(Contd. on page 8)

PROCYCLE

MATERIAL SAFETY DATA SHEET

Page 8/8

according to 453/2010/EC

Printing date 28.04.2015

Version number 9

Revision: 04.03.2015

Trade name PROCYCLE Kühlflüssigkeit

(Contd. of page 7)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Repr. 1B: Reproductive toxicity, Hazard Category 1B

Repr. 1B: Reproductive toxicity, Hazard Category 1B

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

· * **Data compared to the previous version altered.**

GB