SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 19-Jan-2017
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Version: 1

COOLANT *PurpleLine*

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

1.1. Product identifier

Trade name/designation:
Coolant *PurpleLine*
Article No.: 88.19.005

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

Relevant identified uses: engine coolant

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

TRUCKTEC Automotive GmbH
Katharina-Loth-Str. 2
66386 St. Ingbert
Germany

Telephone: +49 6894 9269-0
Telefax: +49 6894 9269-90
Website: www.trucktec.de
E-mail (competent person): info@trucktec.de

1.4. Emergency telephone number

International emergency number:
Telephone: +49 (0) 8165 / 9591-0

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

According to UN GHS criteria:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) (Acute Tox. 4)	H302 Harmful if swallowed.	
Specific target organ toxicity — repeated exposure (Kidney) 2	H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.	

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

Globally Harmonized System, EU (GHS)
Pictograms:

GHS07, GHS08
Signal word:
Warning

Hazard statement	
H302	Harmful if swallowed.
H373	May cause damage to organs (Kidney) through prolonged or repeated exposure

Precautionary Statements (Prevention):	
P260	Do not breathe dust/gas/mist/vapours.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):	
P314	Get medical advice/attention if you feel unwell.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.

Precautionary statements Disposal	
P501	Dispose of contents/container to hazardous or special waste collection point.

According to UN GHS criteria
Hazard determining component(s) for labelling: ETHANE-1,2-DIOL/ETHYLENEGLYCOL

2.3. Other hazards

According to UN GHS criteria
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition / information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

ethanediol; ethylene glycol
inhibitors

Hazardous ingredients (GHS)

According to UN GHS criteria

ethanediol; ethylene glycol

Content (W/W):	> 90 %	Acute Tox. 4 (oral)
CAS Number:	107-21-1	STOT RE (Kidney) 2
EC-Number:	203-473-3	H302, H373
INDEX-Number:	603-027-00-1	

For the classifications not written out in full in this section the full text can be found in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:
Wash thoroughly with soap and water.

On contact with eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:
Rinse mouth immediately and then drink plenty of water, seek medical attention. Administer 50 ml of pure ethanol in a drinkable concentration.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

5.2. Special hazards arising from the substance or mixture

Harmful vapours:
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective clothing. Breathing protection required.

6.2. Environmental precautions
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up
For large amounts: Pump off product.
For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections
Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
No special measures necessary provided product is used correctly.

Protection against fire and explosion:
Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities
The product in undamaged packing need not be stored separately.
Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with occupational exposure limits
107-21-1: ethanediol; ethylene glycol

8.2. Exposure controls

Personal protective equipment

Respiratory protection:
Respiratory protection in case of vapour/aerosol release. Combination filter for gases/vapours of organic compounds and solid and liquid particles (f.e. EN 14387 Type A-P2)

Hand protection:
Chemical resistant protective gloves (EN 374)
Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374)
butyl rubber (butyl) - 0.7 mm coating thickness
nitrile rubber (NBR) - 0.4 mm coating thickness
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:
Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
Physical state: liquid **Odour:** product specific **Colour:** violet
Odour threshold: No applicable information available.

Safety relevant basis data

Parameter		
pH value	approx. 8 (measured with the undiluted substance)	(ASTM D1287)
solidification temperature	< -18 °C	(DIN ISO 3016)
Boiling point	> 160 °C (1.013 hPa)	(ASTM D1120)
Flash point	> 124 °C	(DIN EN 22719; ISO 2719)
Evaporation rate	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability	not flammable	
Lower explosion limit	3.4 %(V) (20 °C)	(DIN 51649-1, air)
Upper explosion limit	15.1 %(V) (20 °C)	(DIN 51649-1, air)
Ignition temperature	420 °C	(DIN 51794)
Vapour pressure	0,2 hPa (20 °C)	
Density	1,122 - 1,125 g/cm³ (20 °C)	(DIN 51757)
Solubility in water	readily soluble	
Solubility (qualitative) solvent(s)	polar solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	Study scientifically not justified.	
Self ignition	not self-igniting	

Thermal decomposition	No decomposition if correctly stored and handled	
Viscosity, kinematic	20 - 30 mm^2/s (20 °C)	(DIN 51562)
Explosion hazard	not explosive	
Fire promoting properties	not fire-propagating	

9.2. Other information

Self heating ability:
It is not a substance capable of spontaneous heating.

Hygroscopy:
hygroscopic

Other Information:
If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
No corrosive effect on metal.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

10.4. Conditions to avoid

Avoid open flames.

10.5. Incompatible materials

Substances to avoid:
strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous combustion products:
No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Assessment of acute toxicity:
Of moderate toxicity after single ingestion. Of low toxicity after short-term skin contact.

Experimental/calculated data:
LD (human) (oral): approx. 1,600 mg/kg

Irritation

Experimental/calculated data:
Skin corrosion/irritation rabbit: non-irritant
Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization

Assessment of sensitization:
Skin sensitizing effects were not observed in animal studies. Human data do not fully exclude a skin sensitizing potential.

Germ cell mutagenicity

Assessment of mutagenicity:
Based on the ingredients, there is no suspicion of a mutagenic effect.

Carcinogenicity

Assessment of carcinogenicity:
The whole of the information assessable provides no indication of a carcinogenic effect.

Developmental toxicity:
Information on: ethanediol; ethylene glycol

Assessment of teratogenicity:
In animal studies the substance caused malformations when given at high doses.

Specific target organ toxicity (single exposure):
No data available.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure):
Information on: ethanediol; ethylene glycol

Assessment of repeated dose toxicity:
The substance may cause damage to the kidney after repeated ingestion. The substance may cause damage to the kidney after repeated skin contact with high doses.

Aspiration hazard:
No aspiration hazard expected.

Other relevant toxicity information:
The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:
LC50 (96 h) > 100 mg/l, Leuciscus idus

Aquatic invertebrates:
EC50 (48 h) > 100 mg/l, Daphnia magna

Aquatic plants:
EC50 (72 h) > 100 mg/l, algae

Microorganisms/Effect on activated sludge:
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

12.2. Persistence and degradability

Elimination information:
>70 % DOC reduction (28 d) (OECD 301 A (new version)) Readily biodegradable.

12.3. Bioaccumulative potential

Accumulation in organisms is not to be expected.

12.4. Mobility in soil

Assessment transport between environmental compartments:
Volatility: The substance will not evaporate into the atmosphere from the water surface.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling

the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

12.7. Additional information

Other ecotoxicological advice:
The product has not been tested. The statement has been derived from the properties of the individual components.
Do not release untreated into natural waters.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.
The waste codes are manufacturer's recommendations based on the designated use of the product. Other use and special waste disposal treatment on customer's location may require different waste-code assigments.

Waste key:
16 01 14¤ antifreeze fluids containing dangerous substances

Contaminated packaging:
Uncontaminated packaging can be re-used.
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14: Transport information

Land Transport
ADR

	Not classified as a dangerous good under transport regulations
UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packing group	Not applicable
Environmental hazards	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packing group	Not applicable
Environmental hazards	Not applicable
Special precautions for user	None known

Inland waterway transport
ADN

	Not classified as a dangerous good under transport regulations
UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packing group	Not applicable
Environmental hazards	Not applicable
Special precautions for user	None known

Transport in inland waterway vessel

	Not classified as a dangerous good under transport regulations
UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packing group	Not applicable
Environmental hazards	Not applicable

Sea transport
IMDG

	Not classified as a dangerous good under transport regulations
UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packing group	Not applicable
Environmental hazards	Not applicable
Special precautions for user	None known

Air transport
IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packing group	Not applicable
Environmental hazards	Not applicable
Special precautions for user	None known

14.1. UN-No.
See corresponding entries for “UN number” for the respective regulations in the tables above.

14.2. UN proper shipping name
See corresponding entries for “UN proper shipping name” for the respective regulations in the tables above.

14.3. Transport hazard class(es)
See corresponding entries for “Transport hazard class(es)” for the respective regulations in the tables above.

14.4. Packing group
See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards
See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user
See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

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

Regulation:	IBC
Shipment approved:	1
Pollution name:	Ethylene glycol (>85%)/sodium alkyl carboxylates mixture
Pollution category:	Y
Ship Type:	3

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Not applicable

SECTION 16: Other information

Assessment of the hazard classes according to UN GHS criteria (most recent version)
Acute Tox. 4 (oral)
STOT RE (Kidney) 2

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3	
Acute Tox.	Acute toxicity
STOT RE	Specific target organ toxicity — repeated exposure
H302	Harmful if swallowed.
H373	May cause damage to organs (Kidney) through prolonged or repeated exposure.

16.7. Additional information
The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.