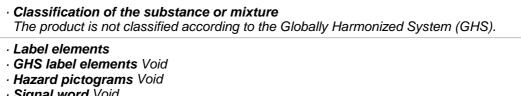


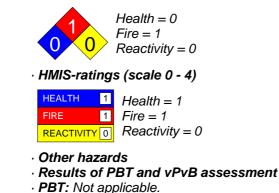
1 Identification

- · Product identifier
- · Trade name: COOLANT M5.0 READY TO USE
- · Application of the substance / the mixture Only for proper handling. Engine coolant
- · Details of the supplier of the safety data sheet · Manufacturer/Supplier: BUCHER_AG_LANGENTHAL MOTOREX-Schmiertechnik

2 Hazard(s) identification



- · Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)



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Trade name: COOLANT M5.0 READY TO USE (Contd. of page 1) · vPvB: Not applicable. 3 Composition/information on ingredients · Chemical characterization: Mixtures · Description: Mixture of the substances listed below with nonhazardous additions. · Dangerous components: CAS: 107-21-1 ethanediol 50-70% 🚯 Acute Tox. 4, H302 Reg.nr.: 01-2119456816-28 4 First-aid measures · Description of first aid measures · General information: No special measures required. · After inhalation: Supply fresh air; consult doctor in case of complaints. · After skin contact: Remove residues with soap and water. Remove contaminated clothing immediately. · After eye contact: Rinse opened eye for several minutes under running water. Consult a physician if irritation develops. · After swallowing: If symptoms persist consult doctor. · Information for doctor: · Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures · Extinguishing media · Suitable extinguishing agents: Use fire fighting measures that suit the environment. Special hazards arising from the substance or mixture No further relevant information available. Advice for firefighters · Protective equipment: No special measures required. 6 Accidental release measures · Personal precautions, protective equipment and emergency procedures Not required. · Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. · Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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Safety Data Sheet acc. to OSHA HCS

Trade name: COOLANT M5.0 READY TO USE

See Section 13 for disposal information.

7 Handling and storage

· Handling:

- **Precautions for safe handling** Keep out of the reach of children. No special measures required.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities Storage:
- **Requirements to be met by storerooms and receptacles:** Do not store in zinced containers.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store containers closed and protect against rain, dust, heat and other atmospheric influences.
- · Storage class: 10
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

· Control parameters

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

107-21-1 ethanediol

TLV Short-term value: NIC-127* mg/m³ Long-term value: NIC-10** NIC-63.5* mg/m³, NIC-25* ppm Ceiling limit value: (100) mg/m³ (H); *inh. fraction + vapor,P:**inh. fraction, H

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- · Protection of hands:

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

Material of gloves

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.

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Penetration time of glove material

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

· Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties

 Information on basic physical and General Information 	chemical properties	
 Appearance: Form: Color: Odor: Odor threshold: 	Fluid turquoise Characteristic Not determined.	
· pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C (212 °F) (DIN EN ISO 3405)	
· Flash point:	> 120 °C (> 248 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	410 °C (770 °F) (DIN 51794)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
 Explosion limits: Lower: Upper: 	3.2 Vol % 15.3 Vol %	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)	
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	1.076 g/cm ³ (8.979 lbs/gal) (ASTM D 4052) Not determined. Not determined. Not determined.	
 Solubility in / Miscibility with Water: 	Fully miscible.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
 Viscosity: Dynamic: Kinematic: Other information 	Not determined. 2 mm²/s @ 40 °C (DIN 51562-1) No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

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Trade name: COOLANT M5.0 READY TO USE

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

Acute toxicity:

- · LD/LC50 values that are relevant for classification:
- 107-21-1 ethanediol
- Oral LD50 1600 mg/kg (mouse)

· Primary irritant effect:

- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-classification according VwVwS, 17.05.1999): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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Trade name: COOLANT M5.0 READY TO USE

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13 Disposal considerations

- · Waste treatment methods
- · Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number · DOT, ADR,ADN, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR,ADN, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR,ADN, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR,ADN, IMDG, IATA	Void
 Environmental hazards: Marine pollutant: 	No
· Special precautions for user	Not applicable.
 Transport in bulk according to Annex I MARPOL73/78 and the IBC Code 	l of Not applicable.
· UN "Model Regulation":	Void

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

107-21-1 ethanediol

· TSCA (Toxic Substances Control Act):

107-21-1 ethanediol

7732-18-5 water, distilled, conductivity or of similar purity

532-32-1 sodium benzoate

- Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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		(Contd. of page
- Chemicals	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
· Chemicals	known to cause developmental toxicity:	
107-21-1 et	hanediol	
Carcinogen	ic categories	
· EPA (Envir	onmental Protection Agency)	
12179-04-3	disodium tetraborate pentahydrate	l (ora
· TLV (Thres	hold Limit Value established by ACGIH)	
107-21-1	ethanediol	A
12179-04-3	disodium tetraborate pentahydrate	A
· NIOSH-Ca (National Institute for Occupational Safety and F	lealth)
None of the	ingredients is listed.	
Component	CDN) (J)	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Abteilung Produktsicherheit

- · Date of preparation / last revision 03/22/2016 / -
- · Abbreviations and acronyms:

Acute Tox. 4: Acute toxicity, Hazard Category 4