



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

version: 1.0

replaces version: -

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

1.1 Product identifier

TRIBUNOL COOLANT S RM 40

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

Use of the substance/mixture:

Coolant

1.3 Details of the supplier of the safety data sheet

Tributech GmbH
Windhauser Weg 2
41366 Schwalmtal

Telephone: +49 (0)2163 889 3444
Fax: +49 (0)2163 889 3456
E-Mail: info@tributech.de

1.4 Emergency telephone number

Poison Control Centre (Bonn): +49 (0) 228 19240 (available 24 hours a day)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Health Hazards:

Acute Tox. 4; H302

Repr. 1B; H360

STOT RE 2; H373

2.2 Label elements

Hazard-determining components for labelling

Ethanediol

2-ethylhexanoic acid, sodium salt

disodium tetraborate, anhydrous

Classification according to Regulation (EC) No 1272/2008

Signal Words:

Danger



Pictograms:



Hazard Statements:

H302 Harmful if swallowed.

H360D May damage the unborn child.

H373 May cause damage to kidneys through prolonged or repeated exposure. Route of exposure: Ingestion.

Precautionary Statements:

P201 Obtain special instructions before use.

P260 Do not breathe dust/fume/gas/mist/vapours/ spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

P405 Store locked up.

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

2.3 Other hazards

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Dangerous components:

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
107-21-1	Ethanediol			>25 - <50%
	203-473-3		01-2119456816-28	
	STOT RE 2, H373; Acute Tox. 4, H302			
17265-14-4	Disodium sebacate			>0.5 - <1.5%
	241-300-3		01-2120762063-61	
	Eye Irrit. 2, H319			
19766-89-3	2-ethylhexanoic acid, sodium salt			>0.5 - <1.5%
	243-283-8		01-2119972937-17	
	Repr. 1B, H360D			
1330-43-4	disodium tetraborate, anhydrous			<0.3%
	215-540-4		01-2119490790-32	
	Repr. 1B, H360FD; Eye Irrit. 2, H319			

For the wording of the listed hazard phrases refer to section 16.



SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Remove contaminated clothing. If there is a risk of unconsciousness, position and transport in the recovery position.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After contact with skin:

Wash with soap and water. If skin irritation continues, consult a doctor.

After contact with eyes:

Rinse opened eye for several minutes under running water.

After ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Administer 50 ml of pure ethanol in a drinkable concentration. Call for a doctor immediately.

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

First aid, decontamination, symptomatic treatment. No specific antidote known.

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. During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

The hazard depends on the combusting substances and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

Protective equipment:

Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product. Wear protective clothing. Mount respiratory protective device.



6.2 Environmental precautions

Retain contaminated water/extinguishing water. Do not allow to enter drains/surface water/ground water. Do not allow product to reach sewage system or any water course.

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. Dispose contaminated material as waste according to section 13.

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 disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Ventilate the storage and work areas well. Immediately reseal containers after removing product, as the product absorbs moisture from the air. Wear chemical resistant gloves combined with specific job training. Wear appropriate coveralls to avoid skin exposure. Temperature class: T2 (ignition temperature >300 °C).

Advice on protection against fire and explosion:

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Store in a cool dry place. Keep away from heat. Keep container tightly sealed.

Requirements for storage rooms and vessels:

Unsuitable materials for containers: galvanised carbon steel (zinc), paper/cardboard. Further information on storage conditions: Keep containers tightly closed in a dry place. Storage in galvanised containers is not recommended. Information about storage in one common storage facility: Not required.

Hints on joint storage:

Not required.

Storage class according to TRGS 510:

6.1 D

7.3 Specific end uses

No further relevant information available.



SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits (TRGS 900):

CAS No	Substance	ppm	mg/m ³	F/m ³	peak limitation	source
107-21-1	Ethanediol	10	26			
1330-43-4	Dinatriumtetraborat, wasserfrei		0.5		II	TRGS 900

DNEL/DMEL values:

CAS No	Substance	Exposure route	Effect	Value
107-21-1	Ethanediol			
	Worker DNEL, long	dermal	systemic	106 mg/kg bw/d
	Consumer DNEL, long	dermal	systemic	53 mg/kg bw/d
	Worker DNEL, long	inhalative	local	35 mg/m ³
	Consumer DNEL, long	inhalative	local	7 mg/kg bw/d

8.2 Exposure controls



Protective gloves



Tightly sealed goggles

General protective and hygienic measures:

Handle in accordance with good industrial hygiene and safety practice. Wear suitable protective clothing. Do not eat, drink, smoke or sniff while working. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately. Do not inhale gases / fumes / aerosols.

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). In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Skin/hand protection:

Wear chemical protective gloves according to EN 374. 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: Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 mm

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: >480min

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

Eye/face protection:

EN 166 Tightly sealed goggles

Body protection:

Protecting boots, chemical-protection suit, Apron. Wearing of closed work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	fluid
Colour:	blue-green
Odour:	product specific
pH-Value:	8
Melting/freezing point:	not determined
Boiling point and boiling range:	100 °C (CAS: 7732-18-5 water)
Flash point:	not applicable
Ignition temperature:	Product is not selfigniting.
Decomposition temperature:	not determined
Evaporation rate:	not determined
Flammability:	not applicable
Upper explosion limits:	not determined
Lower explosion limits:	not determined
Vapour pressure:	not determined
Relative vapour density:	Heavier than air.
Density (at 15 °C):	1.061 g/cm ³
Water solubility:	fully miscible
Partition coefficient n-octanol/water:	not determined
Explosive properties:	Product does not present an explosion hazard.
Particle characteristics:	The substance/product is placed on the market or used in a non-solid or granular state.



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 mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

Materials to avoid: Strong oxidizing agents.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Acute toxicity:

Harmful if swallowed.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
107-21-1	Ethanediol				
	oral	LD50 1600 mg/kg	Human		

Irritation and corrosivity:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

Assessment Sensitisation: Does not cause skin sensitisation in animal tests. Based on results from human experience a sensitising potential cannot be completely excluded.

Germ cell mutagenicity:

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



Carcinogenicity:

Assessment of carcinogenicity: From the totality of the assessable information there is no evidence of a carcinogenic effect.

Reproductive toxicity:

Assessment of reproductive toxicity:

Contains a component that causes reproductive toxicity in animal studies. Details of: Disodium tetraborate, anhydrous Assessment Reproductive toxicity: The substance showed an adverse effect on fertility in animal tests. May harm the unborn child.

STOT-single exposure:

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

STOT-repeated exposure:

Information on: Ethanediol. Assessment Repeated dose toxicity: The substance may cause damage to the kidneys with repeated oral ingestion. The substance may cause damage to the kidneys with repeated dermal ingestion of large quantities. May cause damage to kidneys through prolonged or repeated exposure. Route of exposure: Ingestion.

Aspiration hazard:

No aspiration risk to be assumed.

11.2 Information on other hazards

Endocrine disrupting properties:

The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1 Toxicity

Assessment of aquatic toxicity: Highly unlikely to be acutely harmful to aquatic organisms. Microorganisms/effect on activated sludge: If low concentrations are properly discharged into adapted biological sewage treatment plants, disturbances of the degradation activity of activated sludge are not to be expected.

12.2 Persistence and degradability

CAS No	Chemical name	Method	Value	d	Source
	Ethanediol	Evaluation			
107-21-1	Ethanediol		> 70%	28	OECD 301A
	Easily biodegradable				

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.



12.4 Mobility in soil

Assessment transport between environmental compartments: Volatility: The substance will not evaporate into the atmosphere from the water surface. Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Water hazard class 1 (German Regulation) (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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of waste according to applicable legislation. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

List of Wastes Code:

16 01 14* antifreeze fluids containing hazardous substances

Contaminated packaging:

Non contaminated packagings may be recycled. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Recommendation:

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

Land transport (ADR/RID):

<u>14.1 UN number or ID number:</u>	not regulated
<u>14.2 UN proper shipping name:</u>	not regulated
<u>14.3 Transport hazard classes:</u>	not regulated
<u>14.4 Packing group:</u>	not regulated
<u>14.5 Environmental hazards:</u>	No
<u>14.6 Special precautions for user:</u>	not regulated

Inland waterways transport (ADN):

<u>14.1 UN number or ID number:</u>	not regulated
<u>14.2 UN proper shipping name:</u>	not regulated
<u>14.3 Transport hazard classes:</u>	not regulated
<u>14.4 Packing group:</u>	not regulated



14.5 Environmental hazards: No
14.6 Special precautions for user: not regulated

Marine transport (IMDG):

14.1 UN number or ID number: not regulated
14.2 UN proper shipping name: not regulated
14.3 Transport hazard classes: not regulated
14.4 Packing group: not regulated
14.5 Environmental hazards: No
14.6 Special precautions for user: not regulated

Air transport (ICAO-TI/IATA-DGR):

14.1 UN number or ID number: not regulated
14.2 UN proper shipping name: not regulated
14.3 Transport hazard classes: not regulated
14.4 Packing group: not regulated
14.5 Environmental hazards: No
14.6 Special precautions for user: not regulated

14.7 Maritime transport in bulk according to IMO instruments

not regulated

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 is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 28, 30, 75

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 is listed.

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3): None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS: None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors: None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: None of the ingredients is listed.

National regulations:

Information about limitation of use: The TRGS 910 "Risk-related concept of measures for activities involving carcinogenic hazardous substances" must be observed.

List of carcinogenic, germ cell mutagenic or reprotoxic substances (TRGS 905).

Observe restrictions according to the Youth Employment Protection Act (JArbSchG).

Observe restrictions according to the Maternity Protection Act (MuSchG).

Breakdown regulations: Listed in regulation: no

Technical instructions (air): TA Luft (First General Administrative Regulation to the Federal Immission Control Act - Technical Instructions on Air Quality Control)

Waterhazard 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: CAS: 1330-43-4 disodium tetraborate, anhydrous

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Relevant H and EUH statements (number and full text):

H302 – Harmful if swallowed.

H319 – Causes serious eye irritation.

H360D – May damage the unborn child.

H360FD – May damage fertility. May damage the unborn child.

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

Other information:

Classification according to Regulation (EC) No 1272/2008:

Acute toxicity - oral, Reproductive toxicity, Specific target organ toxicity (repeated exposure): The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

Repr. 1B: Reproductive toxicity – Category 1B

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

**Disclaimer:**

The above information in the safety data sheet corresponds to the best of our knowledge and experience and serves only to describe the product in terms of safety during handling, transport, and disposal. The information does not in any way constitute a (technical) description of the nature of the goods (product specification). The suitability of the product for a specific application cannot be inferred from the information provided in the safety data sheet. Changes to this document are not permitted. The information is not transferable to other products. If the product is mixed, blended, or processed with other materials, or subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced. It is the responsibility of the recipient of our product to comply with applicable federal, state, and local laws in their activities. Please contact us if you require current safety data sheets.

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