

TECHNISCH RENNEN ENGINE COOLANT MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Technisch Rennen Green Coolant

Company: Technisch Rennen Engineering Pvt Ltd

C-171 MIDC, Butibori Industrial Area

Nagpur Maharashtra , India – 440034

Emergency Telephone Number: Day - +919822469151

Other Names: Glycol Coolant, Antifreeze

Recommended Use: Radiator Antifreeze, Coolant

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO CLASSIFICATION BY SAFE WORK, NON-DANGEROUS GOODS ACCORDING TO THE INDIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD AND RAIL

GHS Classification

Acute Toxicity - Oral Category 4



Signal Word:

Hazard Statements

Precautionary Statements:

WARNING

H302 - Harmful if swallowed

P101 If Medical advice is needed,
have product container of label at hand

GENERAL	
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
PREVENTATIVE	
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe mist/vapours/spray
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P273	Avoid release to the environment
P281	Use personal protective equipment as required
RESPONSE	
P301+P312	If SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell
P308+313	IF exposed or concerned: Get medical advice/attention
P314	Get medical advice/attention if you feel unwell
P330	Rinse mouth

TECHNISCH RENNEN ENGINEERING PVT LTD

CIN: U74999MH2016PTC283939 I www.technischrennen.com

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Maharashtra I India



STORAGE	
P405	Store locked up
DISPOSAL	
P501	Dispose of contents/container in accordance with local regulations

SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS INGREDIENTS NAMES AND PROPORTIONS

Chemical Entity	CAS Number	Proportion (%)
Ethylene Glycol	107-21-1	90 – 98
Sodium Nitrite	7632-00-0	< 5
Disodium Tetraborate Pentahydrate	12179-04-3	< 5
Denatonium Benzoate	3734-33-6	< 20ppm

SECTION 4 FIRST AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES

Inhalation: Keep victim calm and remove to fresh air if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

Skin Contact: If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. If irritation persists, seek medical attention.

Eye Contact: If in eyes, hold eyes open, flood with water for at least 15 minutes. If irritation persists, seek medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Have conscious person drink several glasses of water or milk. SEEK IMMEDIATE MEDICAL ATTENTION

SYMPTOMS CAUSED BY EXPOSURE

Inhalation: May include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.

Skin: May include burning sensation, redness, swelling and/or blisters.

Eye: May include burning sensation, redness, swelling and/or blurred vision.

Ingestion: May include nausea, vomiting, abdominal cramps, diarrhoea, lumbar pain shortly after ingestion, and possibly narcosis and death. Kidney toxicity may be recognized by blood in the urine or increased or decreased urine flow.

MEDICAL ATTENTION AND SPECIAL TREATMENT

Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing equipment: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not use water in a jet.

Specific hazards arising from the chemical: Carbon dioxide and/or carbon monoxide may be evolved if incomplete combustion occurs. Material will not burn unless preheated. When heated to decomposition, emits acrid smoke and irritating fumes. Not a product presenting risks of explosion.

Special protective equipment and precautions for fire fighters: Wear full protective clothing and self-contained breathing apparatus.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid contact with spilled or released material. Do NOT ingest. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Ventilate contaminated area thoroughly.

Environmental precautions: Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterways using sand, earth or other appropriate barriers.

Methods and materials for containment and cleaning up: For small spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Avoid breathing vapors. Do NOT ingest. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Handle and open containers with care in a well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Do not empty into drains.

Conditions for safe storage, including any incompatibilities: Store in a cool, well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidisers.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures: glycol: 52mg/m³ (20ppm) TWA (vapour), 104mg/m³ (40ppm)STEL (vapour) and 10mg/m³ TWA (particulate) Disodium tetraborate pentahydrate: 1mg/m³ TWA

Biological monitoring: No biological limit allocated.

Engineering controls: Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

INDIVIDUAL PROTECTION MEASURES

Eye and face protection: Wear safety goggles.

Skin protection: Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.

Respiratory protection: If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.

Thermal hazards: Not applicable.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION	CHEMICAL PROPERTIES
Appearance	Green, viscous liquid
Odour	None
Odour threshold (ppm)	Data not available
pH	7.5 - 8.5 (1% in water)
Melting point/freezing point (°C)	-13
Initial boiling point and boiling range (°C)	197
Flash point (°C)	116.1 (closed cup)
Evaporation rate (Butyl acetate = 1)	0.01
Flammability	Combustible
Upper/lower flammability or explosive limits (%)	3.2 - 15.3
Vapour pressure (mmHg @ 20°C)	0.06
Vapour density (air = 1)	2.1
Density (g/ml @ 15°C)	1.115 -1.145
Solubility	Soluble in water, methanol, diethyl ether
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature (°C)	412
Decomposition temperature (°C)	Data not available
Kinematic viscosity (mm ² /s @ 20°C)	Data not available

SECTION 10 STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions of use.

Chemical stability: Stable under normal conditions of use.

Possibility of hazardous reactions: Stable under normal conditions of use.

Conditions to avoid: High temperatures.

Incompatible materials: Strong oxidising agents, strong acids, strong alkalis.

Hazardous decomposition products: Burning can produce carbon monoxide and/or carbon dioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity: Low toxicity in animals - Ethylene Glycol: LD50 Oral (rat) = 4700mg/kg LD50 Dermal (rabbit) = 9530mg/kg. Sodium Nitrite: LD50 Oral (rat) = 175mg/kg.

Skin corrosion/irritation: May cause skin irritation; prolonged contact may cause dermatitis .

Eye: May cause eye irritation.

Respiratory or skin sensitization: Not expected to be a sensitizer.

Carcinogenicity: Not carcinogenic in animal studies.

Germ cell mutagenicity: No evidence of mutagenic activity.

Reproductive toxicity: May impair fertility.

Aspiration hazard: Not considered an aspiration hazard.

Specific Target Organ Toxicity (STOT) – single exposure: May cause drowsiness or dizziness. Inhalation of vapors or mists may cause irritation to the lungs and respiratory system.

Specific Target Organ Toxicity (STOT) – repeated exposure: May cause damage to organs or organ systems through prolonged or repeated exposure. Toxic to liver and kidneys

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**SECTION 12 ECOLOGICAL INFORMATION****Ecotoxicity:**

Fish – Low toxicity: LC/EC/IC50 > 100mg/l
Aquatic invertebrate – Low toxicity: LC/EC/IC50 > 100mg/l
Algae – Low toxicity: LC/EC/IC50 > 100mg/l
Microorganisms – Low toxicity: LC/EC/IC50 > 100mg/l

Chronic toxicity:

Fish – NOEC/NOEL > 100mg/l
Aquatic invertebrate – NOEC/NOEL > 100mg/l
Algae – No data available
Microorganisms – No data available

Persistence and degradability: Biodegradable.

Bioaccumulative potential: Does not bio accumulate significantly.

Mobility in soil: Dissolves in water. If product enters soil, one or more constituents will be mobile and may contaminate groundwater.

Other adverse effects: No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods: Ensure waste disposal conforms to local waste disposal regulations.

SECTION 14 TRANSPORT INFORMATION

UN number: N/A

Proper shipping name: N/A

India Dangerous Goods class: N/A

Indian Dangerous Goods packing group:

N/A **Hazardous chemical code:** N/A

SECTION 15 OTHER INFORMATION

Date of preparation: 23/10/2023

Revision number: 1

Changes in this revision: More data added

This Technisch Rennen summarizes product safety information at the date of issue, to the best of our knowledge, as a general guide. Company cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document. If clarification or further information is needed, the user should contact to emergency contact of Technisch Rennen.

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