

# Safety Data Sheet

**Japan Chemical Industries**

Date of Issued: 2021/9/13

Product Name: TOYOTA GENUINE TRACTION BATTERY COOLANT

Date of printed: 2021/9/13

## 1. IDENTIFICATION

<b>Trade name</b>	<b>TOYOTA GENUINE TRACTION BATTERY COOLANT</b> Parts No 08889-01605
<b>General Use</b>	Coolant for vehicle
<b>Manufacturer</b>	
Company Name	Japan Chemical Industries Co.,Ltd
Address	813, Kikkawa, Shimizu-ku, Shizuoka, 424-8558 Japan
Telephone Number	+81(54)345-3476
Facsimile Number	+81(54)347-6865
Department In Charge	Engineering Dept.
For Emergency	
Phone No.	+81(54)345-5527

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Hazard Class and Category Codes, Hazard Statements and Codes:

Skin corrosion/irritation 3:H316: Causes mild skin irritation

Eye damage/irritation 2B:H320: Causes eye irritation

STOT SE 1:H370: Cause damage to organs-kidney

STOT SE 2:H371: May cause damage to blood

STOT SE 3:H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness

STOT RE1:H372: Cause damage to organs through prolonged or repeated exposure-kidney

Hazardous to the aquatic environment 3:H402: Harmful to aquatic life

### 2.2. Label elements

Pictogram, Signal Word, Hazard Statement and Codes:

**Danger**

H316: Causes mild skin irritation

H320: Causes eye irritation

H370: Cause damage to organs-kidney

H371: May cause damage to blood

H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness

H372: Cause damage to organs through prolonged or repeated exposure-kidney

H402: Harmful to aquatic life

Precautionary Statement and Codes

[Prevention]

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- P264: Wash hands thoroughly after handling
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P260: Do not breathe mist/vapors
- P270: Do not eat, drink or smoke when using this product
- P271: Use only outdoors or in a well-ventilated area.
- P273: Avoid release to the environment

[Response]

- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention
- P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P314: Get medical advice/attention if you feel unwell.

[Storage]

- P405: Store locked up
- P403+P233: Store in a well-ventilated place. Keep container tightly closed.

[Disposal]

- P501: Dispose of contents/container to in accordance with local/ regional/ national/ international/ regulations

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
 Composition ingredients

Chemical Name	Wt%	CAS #	PEL/TLV(UNITS)	(SOURCE)
Ethylene Glycol	45-55	107-21-1	100mg/m <sup>3</sup> (Aerosol)	ACGIH
Water	45-55	7732-18-5	2mg/m <sup>3</sup>	ACGIH
Non-Hazardous Ingredients	<1			

### 4. FIRST AID MEASURES

- INHALATION**      If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
- EYE**                In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
- SKIN**                In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- INGESTION**        Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

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**NOTE TO PHYSICIAN**

Ethylene Glycol (EG) intoxication may initially produce behavioral changes, drowsiness, vomiting, diarrhea, thirst, and convulsions. EG are nephrotoxic. End stages of poisoning may include renal damage or failure with acidosis. Supportive measures, supplemented with hemodialysis if indicated, may limit the progression and severity of toxic effects. For ETHYLENE GLYCOL POISONING, intravenous ethanol is a recognized antidotal treatment; other antidotal treatments also exist for ethylene glycol poisoning.

**5. FIRE-FIGHTING MEASURES**

- Flash point : Not applicable. (Cleveland Open Cup)
- Auto ignition Temperature : Not applicable
- Suitable extinguishing media : Apply all-purpose type foams by manufacturers' recommended techniques for large fires. Use water spray, carbon dioxide or dry chemical for small fires.
- Unsuitable extinguishing media : Do not use water jet.
- Fire fighting Procedures : Wear full protective clothing and self-contained breathing apparatus. Water may cause splattering.
- Unusual Fire & Explosion Hazards : None
- Additional Advice : Evacuate the area of all non-essential personnel. Keep adjacent containers cool by spraying with water.

**6. ACCIDENTAL RELEASE MEASURES**

- Protective measures : Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Section 8 of this Material Safety Data Sheet. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Use appropriate containment to avoid environmental contamination. Ventilate contaminated area thoroughly.
- Clean Up Methods : Wear appropriate protective clothing. Try to prevent the product from entering drains and water courses. Contain and absorb the product using earth, sand or other inert materials. Transfer into suitable containers for recovery and disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

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Additional Advice : See Section 13 for information on disposal. Observe all relevant local regulations. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Dike and contain spill water.

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### 7. HANDLING AND STORAGE

General Precautions : Avoid breathing of or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Material Safety Data Sheet. For comprehensive advice on handling, product transfer, storage and tank cleaning refer to the product supplier.

Handling : Use local exhaust extraction over processing area. Handle and open container with care in a well-ventilated area. Do not empty into drains. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Handling Temperature: Ambient. Handling 60 °C maximum

Storage : Tanks must be clean, dry and rust-free. Keep container tightly closed. Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Cleaning, inspection and maintenance of storage tanks is a specialist operation which requires the implementation of strict procedures and precautions. Drums should be stacked to a maximum of 3 high. Storage Temperature: Ambient. 60 °C maximum.

Product Transfer : Keep containers closed when not in use. Do not pressurize drum containers to empty.

Recommended Materials : Plastic

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional Information : Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use.

Exposure Controls : No exposure controls are ordinarily required under normal conditions of use. It is good general industrial hygiene practice to minimize exposure to the material.

Personal Protective Equipment : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Respiratory Protection : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g., airborne

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concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65 °C (149 °F)] meeting EN141.

- Hand Protection : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: Longer term protection: PVC. Neoprene rubber. Nitrile rubber. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.
- Eye Protection : Chemical splash goggles (chemical monogoggles).
- Protective Clothing : Skin protection not ordinarily required beyond standard issue work clothes. Chemical resistant gloves/gauntlets, boots, and apron.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	liquid
Colour	Orange
Odor	Characteristic Odor
Odor threshold	Not determined
pH	7.1
Freezing point	-35°C
Boiling point	109°C
Flash point	Not determined (Cleveland open cup)
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable.
Upper/lower flammability limits	Not determined
Explosive limit in air	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Density	1.065 g/cm <sup>3</sup> (20°C)
Solubility	In water: Complete
Partition coefficient:n-octanol/water(K <sub>ow</sub> )	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined

**10. STABILITY AND REACTIVITY**

- Condition to avoid : None.
- Stability : stable.
- Incompatibility : Normally unreactive; however, avoid strong bases at high

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temperatures, strong oxidizing agents and materials reactive with hydroxyl compounds.

Polymerization : Will not occur.

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

**11. TOXICOLOGICAL INFORMATION**

Basis for Assessment : Information given is based on product testing.

**Acute Exposure**

Oral Toxicity : Low toxicity: LD50 >5000 mg/kg , Rat  
There is a marked difference in acute oral toxicity between rodents and man, man being more susceptible than rodents. The estimated fatal dose for man is 100 milliliters (1/2 cup). This material has also been shown to be toxic and potentially lethal by ingestion to cats and dogs.  
Ingestion may cause drowsiness and dizziness.  
Classified as harmful by the European Commission.

Dermal Toxicity : Low toxicity: LD50 >5000 mg/kg , Rabbit

Inhalation Toxicity : Low toxicity: LC50 >20 mg/l / 4 hours, Rat

Skin Irritation : May cause moderate skin irritation (but insufficient to classify).

Eye Irritation : Cause serious eye irritation.

Respiratory Irritation : Inhalation of vapours or mists may cause irritation to the respiratory system.

**Chronic Exposure**

Repeated Dose Toxicity: Kidney: can cause kidney damage.

Mutagenicity : No evidence of mutagenic activity.

Carcinogenicity : Not carcinogenic in animal studies.

Reproductive and Developmental Toxicity : Causes foetotoxicity in animals; considered to be secondary to maternal toxicity.

Constituents of this product are not listed by NTP, IARC and OSHA as known carcinogens.

**12. ECOLOGICAL INFORMATION****Environmental Toxicity**

Fish : Low toxicity: LC/EC/IC50 > 100 mg/l

Aquatic Invertebrates : Low toxicity: LC/EC/IC50 > 100 mg/l

Algae : Low toxicity: LC/EC/IC50 > 100 mg/l

Microorganisms : Low toxicity: LC/EC/IC50 > 100 mg/l

Mobility : Dissolves in water.  
If product enters soil, it will be highly mobile and may contaminate groundwater.

Persistence/degradability : Readily biodegradable.  
Oxidizes rapidly by photo-chemical reactions in air.

Bioaccumulation : Does not bioaccumulate significantly.

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**13. DISPOSAL CONSIDERATIONS**

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

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**14. TRANSPORT INFORMATION**

UN class	Not classified.
ADR/RID class	Not classified.
IMDG class	Not classified.
IMDG Marine pollutant	No.
ICAO/IATA class	Not classified.

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**15. REGULATORY INFORMATION**

## Global Chemical Inventories

EU	All components on EINECS/ELINCS/NLP.
USA	All components on TSCA Inventory or exempt. EPA SARA Title III Section 302: Not Listed Section 304: Not Listed Section 311/312/313: Listed(Ethylene glycol)
Canada	All components on DSL.
Japan	All components METI.
Australia	All components on NICNAS.
Korea	All components on ECL.
Philippines	All components on PICCS.
China	All components IECSC.

## US.California Proposition 65

This product contains the following ingredients for which the State of California has found to reproductive harm, which would require a warning under the state:  
Ethylene glycol (CAS No.107-21-1)

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**16. OTHER INFORMATION**

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.