

## 1. Identification of the substance and of the supplier

<b>Product identifier</b>	
Product name	BANGCHAK COOLANT
<b>Recommended use of the chemical and restrictions on use</b>	
Radiator Coolant	
<b>Manufacture 's details</b>	
Company Address	2098 M Tower Building, 8 <sup>th</sup> Floor, Sukhumvit Road, Phrakanong Tai, Phrakanong, Bangkok 10260 Thailand
Phone number	+66 2335 4999
Fax	+66 2016 3991
Emergency phone number	+66 2335 8888

## 2. Hazards Identification

<b>GHS classification of the substance /mixture</b>	
Acute oral toxicity	Category 4
Reproductive Toxicity	Category 1A
Specific Target Organ Toxicity/Repeated Exposure	Category 1

### GHS label elements

Pictogram



Signal word

DANGER

Hazard statement(s)

H302 – Harmful if swallowed.  
H360 – May damage fertility or the unborn child.  
H372 – Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P201 – Obtain special instructions before use.  
P202 – Do not handle until all safety precautions have been read and understood.  
P260 – Do not breathe dust/fumes/gas/mist/vapours/spray.  
P264 – Wash skin thoroughly after handling.  
P270 – Do not eat, drink or smoke when using this product.  
P280 – Wear protective gloves/protective clothing/eye protection/face

	<p>protection.</p> <p>P301+P312 – IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell..</p> <p>P308+P313 – IF exposed or concerned: Get medical advice/attention.</p> <p>P314 – Get medical advice/attention if you feel unwell.</p> <p>P330 – Rinse mouth.</p> <p>P405 – Store locked up.</p> <p>P501 – Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
Other hazards which do not result in classification	Not available

### 3. Composition/Information on Ingredients

Components	CAS No.	Concentration %
Ethanediol; ethylene glycol	107-21-1	50-100
Disodium tetraborate, decahydrate	1303-96-4	2.5-5
Additive Package	CBI	Confidential

### 4. First Aid Measures

<p><b>Description of first aid measures</b></p> <p>Inhalation</p> <p>Skin contact</p> <p>Eye contact</p> <p>Ingestion</p>	<p>Remove from further exposure.</p> <p>Wash contact areas with soap and water. If irritation occurs, get medical assistance</p> <p>Flush thoroughly with water for 15 minute. If irritation occurs, get medical assistance.</p> <p>If swallow, DO NOT induce vomiting. Keep at rest. Get prompt medical attention</p>
<p><b>Indication of any immediate medical attention and special treatment needed :</b></p>	Treat symptomatically

### 5. Fire Fighting Measures

<p><b>Extinguishing media</b></p> <p>Suitable extinguishing media</p> <p>Unsuitable extinguishing media</p>	<p>Use foam, dry chemical or carbon dioxide.</p> <p>Water jet</p>
<p><b>Special hazards arising from the substance or mixture</b></p>	<p>Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons and soot. These may be highly dangerous if inhaled.</p>
<p><b>Special protective equipment and precautions for fire-fighters</b></p>	<p>Wear self-contained breathing apparatus for firefighting.</p> <p>Use water spray to cool unopened containers.</p>

## 6. Accidental Release Measure

<b>Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Environmental precautions</b>	Do not let product enter drains.
<b>Methods and materials for containment and cleaning up</b>	For small spills, add absorbent or sand , scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

## 7. Handling and Storage

<b>Precautions for safe handling</b>	Avoid contact with eyes, skin and clothing. Use only with adequate ventilation.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 8. Exposure Controls/Personal Protection

<b>Control parameters</b>	Not establish
<b>Appropriate engineering controls</b>	Use ventilation, local exhaust ventilation
<b>Personal protective equipment</b> Respiratory protection Skin protection Eye/face protection Body Protection	Breathing protection. Use filter respirator suitable for organic vapours Protective gloves. Wear safety goggles, safety glass Chemical suit
<b>Work / Hygienic Practices:</b>	Do not eat, drink, or smoke during work. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

## 9. Physical and Chemical Properties

<b>Appearance and Color:</b>	Red liquid, Bright&Clear
<b>pH</b>	Not determine
<b>Flash point</b>	116°C
<b>Auto-ignition temperature</b>	398°C typ
<b>Explosion limits: Lower</b>	3.2 %vol
<b>Upper</b>	28.0 %vol
<b>Water solubility:</b>	Fully miscible

**10. Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical stability</b>	Stable
<b>Possibility of hazardous reactions</b>	Will not occur
<b>Conditions to avoid</b>	Heat, flames and sparks. sunlight
<b>Incompatible materials</b>	Strong oxidized
<b>Hazardous decomposition products</b>	Not available

**11. Toxicological Information**

<b>Information on the likely routes of exposure</b>	
Inhalation :	Minimally Toxic. Based on assessment of the components.
Skin contact :	Minimally Toxic. Based on assessment of the components.
Eye contact :	Minimally Toxic. Based on assessment of the components.
Ingestion :	Minimally Toxic. Based on assessment of the components.
<b>Numerical measures of toxicity</b>	
Classification of Health Hazards	
Acute oral toxicity	>3,000 mg/kg (Calculated)
	Not classified
Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
	Not classified
Skin corrosion / irritation	Not classified
Serious eye damage/eye irritation	Not possible to clarified
Respiratory or skin sensitization	Not possible to clarified
Germ cell mutagenicity	Not possible to clarified
Carcinogenicity	Suspected of damaging fertility or the unborn child
Reproductive toxicity	Not possible to clarified
Specific target organ toxicity - single exposure	Causes damage to organs through prolonged or repeated exposure
Specific target organ toxicity - repeated exposure	May be fatal if swallowed and enters airways
Aspiration hazard	

**12. Ecological Information**

<b>Ecotoxicity</b>	
Acute (Short- term) aquatic hazard	Not possible to clarified
Long-term aquatic hazard	Not possible to clarified
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	No data available
<b>Environmental effects</b>	No data available

**13. Disposal Considerations**

<b>Waste treatment methods</b>	Dispose in accordance with local/national/international regulations.
<b>Contaminated packaging</b>	Dispose of container in accordance with local/national /international regulations.

**14. Transport Information**

<b>UN number</b>	Not regulated as dangerous goods
<b>UN proper shipping name</b>	Not regulated as dangerous goods
<b>Transport hazard class (es)</b>	Not regulated as dangerous goods
<b>Packaging group</b>	Not classified
<b>Environmental hazards</b>	No data available
<b>Transport in bulk</b>	No data available
<b>Special precautions for user</b>	No data available

**15. Regulatory Information**

<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	This material is considered hazardous according to the classification criteria of the Hazard Classification and Communication System for Hazardous Materials BE 2555. Thailand
<b>Chemical Safety Assessment</b>	For this product a chemical safety assessment was not carried out

**16. Other Information**

**Created:** Dec 12, 2019

**Reference**

1. National Institute of Technology and Evaluation (SAFE NITE)

[http://www.safe.nite.go.jp/english/ghs/ghs\\_index.html](http://www.safe.nite.go.jp/english/ghs/ghs_index.html)

2. Globally Harmonized System of Classification and Labelling of Chemical (GHS), United Nation, 2011

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