


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

<b>Product identifier</b>	
Product name	FURIO SUPER LONGLIFE COOLANT
<b>Recommended use of the chemical and restrictions on use</b>	
Radiator Coolant OAT Technology	
<b>Manufacture 's details</b>	
Company Address	2098 M Tower Building, 8 <sup>th</sup> Floor, Sukhumvit Road, Phrakanong Tai, Phrakanong, Bangkok 10260 Thailand
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## 2. Hazards Identification

<b>GHS classification of the substance /mixture</b>	
Specific Target Organ Toxicity/Repeated Exposure	Category 2 (Kidney)

### GHS label elements

Pictogram	
	
Signal word	WARNING
Hazard statement(s)	H373 – May Causes damage to organs (Kidney) through prolonged or repeated exposure.
Precautionary statement(s)	P102 – Keep out of reach of children. P260 – Do not breathe dust/fumes/gas/mist/vapours/spray. P101 – If medical advice is needed, have product container or label at hand. P301+P310 – IF SWALLOWED: Immediately call a POISON CENTRE/doctor. P501 – Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards which do not result in classification	Not a PBT or vPvB substance or mixture.

### 3. Composition/Information on Ingredients

Components	CAS No.	Concentration %
Ethanediol; ethylene glycol	107-21-1	30-37
Sodium 2-ethylhexanoate	19766-89-3	0.3-0.8

### 4. First Aid Measures

<b>Description of first aid measures</b>	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
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.
<b>Indication of any immediate medical attention and special treatment needed :</b>	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

### 5. Fire Fighting Measures

<b>Extinguishing media</b>	
Suitable extinguishing media	Alcohol resistant foam. Dry powder. Carbon dioxide (CO <sub>2</sub> ).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Special hazards arising from the substance or mixture</b>	Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterized.
<b>Special protective equipment and precautions for fire-fighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk.

### 6. Accidental Release Measure

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean up. Do not breathe mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
<b>Environmental precautions</b>	Avoid discharge into drains, watercourses or onto the ground.
<b>Methods and materials for containment and cleaning up</b>	Use water spray to reduce vapours or divert vapor cloud drift. <i>Large Spills:</i> Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. <i>Small Spills:</i> Wipe up with absorbent material (e.g. cloth, fleece). Clean

	<p>surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use.</p>
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## 7. Handling and Storage

<b>Precautions for safe handling</b>	Do not breathe mist or vapor. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

## 8. Exposure Controls/Personal Protection

<b>Control parameters</b>	No applicable occupational exposure limits exist for this material or its components.
<b>Appropriate engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<b>Personal protective equipment</b> Respiratory protection Skin protection  Eye/face protection Body Protection	Chemical respirator with organic vapor cartridge and full-face piece. Wear appropriate chemical resistant gloves. Wear suitable gloves tested to EN374. Full contact: Use gloves classified protection index 6 with breakthrough time of 480 minutes. Minimum glove thickness 0.38 mm. Neoprene, butyl rubber, nitrile or Viton gloves are recommended. Suitable gloves can be recommended by the glove supplier.  Wear safety goggles, safety glass  Chemical suit
<b>Work / Hygienic Practices:</b>	Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

<b>Appearance and Color:</b>	Green liquid, Bright & Clear
<b>Odour</b>	Mild
<b>pH</b>	8.6 (20°C)
<b>Flash point</b>	Not applicable.
<b>Initial boiling point and boiling range</b>	103°C (Estimate)
<b>Explosion limits: Lower</b>	Not determined.

<b>Upper</b>	Not determined.
<b>Water solubility:</b>	Fully miscible

## 10. Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong acids. Strong oxidizing agents. Nitrates. Peroxides. Chlorates.
<b>Hazardous decomposition products</b>	At elevated temperatures: Ketones. Aldehydes.

## 11. Toxicological Information

<p><b>Information on the likely routes of exposure</b></p> <p>Inhalation :</p> <p>Skin contact :</p> <p>Eye contact :</p> <p>Ingestion :</p>	<p>In high concentrations, mists/vapours may irritate throat and respiratory system and cause coughing.</p> <p>Prolonged or repeated contact may dry skin and cause irritation.</p> <p>Direct contact with eyes may cause temporary irritation.</p> <p>Ingestion of ethylene glycol may result in nausea, vomiting, abdominal cramps, blindness, liver damage, irritation, reproductive effects, nerve damage, convulsions, oedema of the lung, cardiopulmonary effects (metabolic acidosis), pneumonia and kidney failure which could result in death. The single lethal dose for humans is about 100 ml. Inhalation of high levels of vapour or mists for prolonged periods of time may also result in toxic effects.</p>
<p><b>Numerical measures of toxicity</b></p> <p>Classification of Health Hazards</p> <p>Acute oral toxicity</p> <p>Acute dermal toxicity</p> <p>Acute inhalation toxicity</p> <p>Skin corrosion / irritation</p> <p>Serious eye damage/eye irritation</p> <p>Respiratory or skin sensitization</p> <p>Germ cell mutagenicity</p> <p>Carcinogenicity</p> <p>Reproductive toxicity</p> <p>Specific target organ toxicity - single exposure</p> <p>Specific target organ toxicity - repeated exposure</p>	<p>Not classified</p> <p>Not classified</p> <p>No data available</p> <p>No data available</p> <p>Not possible to clarified</p> <p>Not possible to clarified</p> <p>Not possible to clarified</p> <p>Not possible to clarified</p> <p>Not possible to clarified</p> <p>Not possible to clarified</p> <p>Not possible to clarified</p> <p>Based on available data, the classification criteria are not met.</p> <p>May cause damage to organs (kidney) through prolonged or repeated exposure.</p>

Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
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## 12. Ecological Information

<b>Ecotoxicity</b>	
Acute (Short-term) aquatic hazard	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
Long-term aquatic hazard	
<b>Persistence and degradability</b>	Expected to be readily biodegradable.
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	Not a PBT or vPvB substance or mixture.
<b>Environmental effects</b>	No data available

## 13. Disposal Considerations

<b>Waste treatment methods</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 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>	<p>Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended - Not listed.</p> <p>Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended - Not listed.</p> <p>Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended - Not listed.</p> <p>Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended - Not listed.</p> <p>Regulation (EU) No. 649/2012 concerning the export and import of</p>
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	<p>dangerous chemicals, Annex I, Part 3 as amended - Not listed.</p> <p>Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended - Not listed.</p> <p>Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended - Not listed.</p> <p>Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA - Not listed.</p> <p>Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended - Not listed.</p> <p>Restrictions on use</p> <p>Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended - Not listed.</p> <p>Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended. - Not listed.</p> <p>Other EU regulations</p> <p>Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended - Not listed.</p>
<b>Chemical Safety Assessment</b>	For this product a chemical safety assessment was not carried out

## 16. Other Information

### List of abbreviations

TWA: Time weighted average.

STEL: Short term exposure limit.

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.

STP: Sewage treatment plant.

LD50: Lethal Dose, 50%.

EC50: Effective Concentration, 50%.

LC50: Lethal Concentration, 50%.

PBT: Persistent, bioaccumulative and toxic.

vPvB: Very Persistent and very Bioaccumulative.

**Created:** October 20, 2021

**Reference:** ECHA CHEM

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