


1. Identification of the substance and of the supplier

Product identifier	
Product name	GEAR GL-1
Recommended use of the chemical and restrictions on use	Automotive Gear Oil
Manufacture 's details	
Company Address	2098 M Tower Building, 8 th 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

GHS classification of the substance /mixture	
Acute oral toxicity	Category 5
Acute inhalation toxicity	Category 4
Respiratory or skin sensitization	Category 1
Hazardous to the aquatic environment – long-term hazard	Category 4

GHS label elements

Pictogram	
Signal word	DANGER
Hazard statement(s)	<p>H303 – May be harmful if swallowed.</p> <p>H304 – May be fatal if swallowed and enters airways.</p> <p>H332 – Harmful if inhaled.</p> <p>H361 – Suspected of damaging fertility or the unborn child.</p> <p>H372 – Causes damage to organs through prolonged or repeated exposure.</p> <p>H413 – May cause long lasting harmful effects to aquatic life.</p>
Precautionary statement(s)	<p>P201 – Obtain special instructions before use.</p> <p>P202 – Do not handle until all safety precautions have been read and understood.</p> <p>P260 – Do not breathe dust/fumes/gas/mist/vapours/spray.</p>

	<p>P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray.</p> <p>P264 – Wash skin thoroughly after handling.</p> <p>P270 – Do not eat, drink or smoke when using this product.</p> <p>P271 – Use only outdoors or in a well-ventilated area.</p> <p>P273 – Avoid release to the environment.</p> <p>P281 – Use personal protective equipment as required.</p> <p>P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P308+P313 – IF exposed or concerned: Get medical advice/attention.</p> <p>P312 – Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P314 – Get medical advice/attention if you feel unwell.</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 %
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	>90 (SAE 90) >85 (SAE 140)
Additive Package	CBI	Confidential

4. First Aid Measures

<p>Description of first aid measures</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>Indication of any immediate medical attention and special treatment needed :</p>	Treat symptomatically

5. Fire Fighting Measures

<p>Extinguishing media</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>Special hazards arising from the substance or mixture</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>

Special protective equipment and precautions for fire-fighters	Wear self-contained breathing apparatus for firefighting. Use water spray to cool unopened containers.
---	---

6. Accidental Release Measure

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions	Do not let product enter drains.
Methods and materials for containment and cleaning up	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

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

8. Exposure Controls/Personal Protection

Control parameters	Not establish
Appropriate engineering controls	Use ventilation, local exhaust ventilation
Personal protective equipment 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
Work / Hygienic Practices:	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

Appearance and Color:	Brown liquid, Bright&Clear
Odour:	Characteristic
Kinematics Viscosity@100°C:	18.0-29.5 cSt
Flash point:	>220 °C
Upper/lower flammability or explosive limits:	Lower : 1% v/v - Upper : 10% v/v
Pour Point:	<-6 °C
Relative density:	0.8-0.9

Water solubility:	Insoluble
--------------------------	-----------

10. Stability and Reactivity

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

11. Toxicological Information

Information on the likely routes of exposure	
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.
Numerical measures of toxicity	
Classification of Health Hazards	
Acute oral toxicity	ATE _{mix} 2000 - 5000 mg/kg May be harmful if swallowed
Acute dermal toxicity	Not classified
Acute inhalation toxicity	ATE _{mix} 1.0-5 mg/l Harmful if inhaled
Skin corrosion / irritation	Not classified
Serious eye damage/eye irritation	Not classified
Respiratory or skin sensitization	Not possible to clarified
Germ cell mutagenicity	Not possible to clarified
Carcinogenicity	Not possible to clarified
Reproductive toxicity	Suspected of damaging fertility or the unborn child
Specific target organ toxicity - single exposure	Not possible to clarified
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure
Aspiration hazard	May be fatal if swallowed and enters airways

12. Ecological Information

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

Environmental effects	No data available
------------------------------	-------------------

13. Disposal Considerations

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

14. Transport Information

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

15. Regulatory Information

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

16. Other Information

Created: July 12, 2019

Updated: January 1, 2023

Reference

- National Institute of Technology and Evaluation (SAFE NITE)
http://www.safe.nite.go.jp/english/ghs/ghs_index.html
- Globally Harmonized System of Classification and Labelling of Chemical (GHS), United Nation, 2011

The information contained herein is to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept liability for any loss or damage, however arising, which results directly or indirectly from the use of such information, nor do we offer any warranty of immunity against patent infringement.