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<b>P-722 Gear Oil 80W-90 EP GL/5</b>	Revised edition no : 00
	Effective Date: 26.5.2020

**1 Identification of the Product and the company**

Chemical Name : Gear Oil 80W-90 EP GL/55  
Type of product chemical family : Gear Oil  
Producer : TLC-KOYA CHEMICALS MANUFACTURING SDN BHD  
No.22 & 23, Jalan Maju 1,  
Cemerlang Industrial Estate,  
81800 Ulu Tiram, Johor, Malaysia.  
Tel: 607-8675798 Fax: 607-8675799  
Website: www.koyachemicals.com Email: admin@koyachemicals.com  
Emergency phone nr : See producer

**2 Hazards Identification**

Classification of the mixture: Not Classified

GHS label element  
Signal Word : No signal word  
Hazard Statement: No known significant effects or critical hazards.

Precautionary statements :  
Prevention Not applicable  
Response Not applicable  
Storage Store in well-ventilated place  
Disposal Dispose of contents and container in accordance with all local, regional, national and international regulations

**3 Composition / Information on Ingredients**

Highly refined mineral oil (C15 - C50) : Mixture  
60% ~ 90%  
Ashless anti wear lubricant oil additives : Blend  
10% ~ 40%

**4 First Aid Measures**

Inhalation : No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs. If exposure to hydrogen sulfide (H<sub>2</sub>S) gas is possible during an emergency, wear an approved, positive pressure air-supplying respirator. Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Skin Contact : No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Eye Contact : No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Ingestion : No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.



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#### 5 Fire Fighting Measures

Extinguishing Media	: Use water fog, foam, dry chemical or carbon dioxide (CO <sub>2</sub> ) to extinguish flames.
Fire Fighting Procedures	: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Hazardous Combustion Products	: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Boron, Sulfur.

#### 6 Accidental Release Measures

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying noncombustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

#### 7 Handling And Storage

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Precautionary Measures: Do not breathe gas. Wash thoroughly after handling. Keep out of the reach of children.

Unusual Handling Hazards: Toxic quantities of hydrogen sulfide (H<sub>2</sub>S) may be present in storage tanks and bulk transport vessels which contain or have contained this material. Persons opening or entering these compartments should first determine if H<sub>2</sub>S is present. See Exposure Controls/Personal Protection -Section 8. Do not attempt rescue of a person over exposed to H<sub>2</sub>S without wearing approved supplied-air or self-contained breathing equipment. If there is a potential for exceeding one-half the occupational exposure standard, monitoring of hydrogen sulfide levels is required. Since the sense of smell cannot be relied upon to detect the presence of H<sub>2</sub>S, the concentration should be measured by the use of fixed or portable devices.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

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## 8 Exposure Controls and Personal Protections

### GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**ENGINEERING CONTROLS:** Use in a well-ventilated area.

### PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**Skin Protection:** No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.

**Respiratory Protection:** No respiratory protection is normally required.

If material is heated and emits hydrogen sulfide, determine if airborne concentrations are below the occupational exposure limit for hydrogen sulfide. If not, wear an approved positive pressure air-supplying respirator.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For airpurifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

## 9 Physical and Chemical Properties

Appearance	: Pale Brown Liquid
Specific Gravity	: 0.86 - 0.87 @ 28.9°C
Kinematic Viscosity	: 150 - 174 mm <sup>2</sup> /s @ 40°C

## 10 Stability and Reactivity

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Incompatibility With Other Materials:** Not applicable

**Hazardous Decomposition Products:** Hydrogen Sulfide (Elevated temperatures)

**Hazardous Polymerization:** Hazardous polymerization will not occur.

## 11 Toxicological Information

**Serious Eye Damage/Irritation:** The eye irritation hazard is based on evaluation of data for product components.

**Skin Corrosion/Irritation:** The skin irritation hazard is based on evaluation of data for product components.

**Skin Sensitization:** The skin sensitization hazard is based on evaluation of data for product components.

**Acute Dermal Toxicity:** The acute dermal toxicity hazard is based on evaluation of data for product components.

**Acute Oral Toxicity:** The acute oral toxicity hazard is based on evaluation of data for product components.

**Acute Inhalation Toxicity:** The acute inhalation toxicity hazard is based on evaluation of data for product components.

**Acute Toxicity Estimate:** Not Determined

**Germ Cell Mutagenicity:** The hazard evaluation is based on data for components or a similar material.

**Carcinogenicity:** The hazard evaluation is based on data for components or a similar material.

**Reproductive Toxicity:** The hazard evaluation is based on data for components or a similar material.

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Specific Target Organ Toxicity - Single Exposure: The hazard evaluation is based on data for components or a similar material.  
Specific Target Organ Toxicity - Repeated Exposure: The hazard evaluation is based on data for components or a similar material.

**ADDITIONAL TOXICOLOGY INFORMATION:** This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

## 12 Ecological Information

### ECOTOXICITY

This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

**MOBILITY** No data available

### PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material. The product has not been tested. The statement has been derived from the properties of the individual components.

### POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Octanol/Water Partition Coefficient: No data available

## 13 Disposal Information

- The following advice only applies to the product as supplied.
- Combination with other materials may well indicate another route of disposal. If in doubt, contact TLC-KOYA CHEMICALS MFG SDN BHD or local authorities.
- Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.
- Care should in any case be taken to ensure compliance with national and local authorities.
  
- This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams and rivers.
- This product will generate an ash if burned. It can be burned directly in appropriate equipment.

## 14 Transport Information

LAND : This product is not regulated for road and rail transport.  
SEA - IMDG : This is not regulated for sea transport.  
AIR (ICAO/IATA) : This product is not regulated for air transport.

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#### 15 Regulatory Information

Governing Directive	: Occupational Safety and Health (Classification, packaging and Labelling of Hazardous Chemicals) Regulations 2007 Act 514 ACCESSIBILITY on this CSDS according to the above ACT on Regulation 10. (1)(a), must be available and easily accessible by any person who uses or handles this product.
Indication of Special Risks	: R36/37/38 Irritating to eyes, respiratory system and skin.
Indication of safety Precautions	: S2 Keep out of reach of children. S9 Keep in a well ventilated place. S14 Keep away from strong oxidizing agents - acids, alkaline S16 Keep away sources of ignition - "No Smoking" S23 Do not breathe spray, vapour, fumes or gas S43 In case of fire, use dry chemical powder, foam, carbon dioxide (CO <sup>2</sup> ) S56 Do not discharge into drains or the environmental, dispose of an authorized waste collection point

#### 16 Other information

Further information	: None
Print date	: 26.5.2020

N/A - Not Applicable      N/D - Not Determined

All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from data or test results obtained by us, are based on the current state of our knowledge at the time such recommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendations, the user is responsible to determine that the product as supplied by us, is suitable for the process or purpose he intends to use it. The user of the product is solely for compliance with all laws and regulation applying to the use of the product. Since we cannot control the application, use or processing of the products, we do not accept responsibility therefore. The user shall ensure that the intended use of the products will not infringe in any party's intellectual property rights.

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