

SAFETY DATA SHEET

REV: 00 DATE: 4 OCTOBER 2016

HIGH PERFORMANCE GEAR OIL EP90(API GL-5)

1. Product & Company Identification

Product Details

Product name: HIGH PERFORMANCE GEAR OIL EP90 (API GL-5)
Physical form: Liquid
Odour: Light
CAS No.: Mixture

Company Details

Manufacturer: Mohm Chemical Sdn Bhd
Address: No. 32, Jalan Temenggong, Off Jalan Tampoi,
81100 Johor Bahru, Johor, Malaysia.
Tel: + 60-7-3331222
Fax: + 60-7-3320545/ + 60-7-3337919

2. Hazards Identification

Hazard Pictogram



Signal Word: Warning

Classification

EYE IRRITATION - Category 2B
SKIN SENSITIZATION - Category 1
AQUATIC HAZARD (ACUTE) - Category 3
AQUATIC HAZARD (LONG-TERM) - Category 3

Hazard Statement

H315- Causes eye irritation.
H317- May cause an allergic skin reaction.
H412- Harmful to aquatic life with long lasting effects.

Precautionary Statement – Prevention

P280- Wear protective gloves.
P273- Avoid release to the environment.
P261- Avoid breathing vapor.
P264- Wash hands thoroughly after handling.
P272- Contaminated work clothing must not be allowed out of the workplace.

Precautionary Statement – Response

P302+P352- IF ON SKIN: Wash with plenty of soap and water.
P363- Wash contaminated clothing before reuse.



SAFETY DATA SHEET

REV: 00 DATE: 4 OCTOBER 2016

HIGH PERFORMANCE GEAR OIL EP90(API GL-5)

P333+P313- If skin irritation or rash occurs: Get medical 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 attention.

Precautionary Statement – Storage

No precautionary statement

Precautionary Statement – Disposal

P501- Dispose of contents and container in accordance with all local, regional, national and International regulations.

3. Composition / Hazardous Components

<u>Chemical Name</u>	<u>CAS No.</u>	<u>WT%</u>
*Base Oil(s):	64742-54-7	25 - 50
1-Propene, 2-methyl-, homopolymer	9003-27-4	25 - 50
1-Decene, homopolymer, hydrogenated	68037-01-4	10 - 30
Long-chain alkyl amine	-	0.3 - 1
Long-chain alkenyl amine	-	0.3 - 0.8

4. First-aid Measures

Take off all contaminated clothing immediately.

Eye Contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. If irritation persists, get medical attention.

Skin Contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

5. Fire Fighting Measures

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

Special firefighting procedure: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated



SAFETY DATA SHEET

REV: 00 DATE: 4 OCTOBER 2016

HIGH PERFORMANCE GEAR OIL EP90(API GL-5)

Hazardous decomposition:	in positive pressure mode. Decomposition products may include the following materials: carbon dioxide carbon monoxide
Specific hazards arising from the chemical:	This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

6. Accidental release measures

Methods for cleaning up:	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose via a licensed waste disposal contractor
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

7. Handling and Storage

Precautions for safe handling

Protective measures:	Put on appropriate personal protective equipment. Avoid contact with used product. Do not reuse container.
Advice on general occupational hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage including any incompatibilities:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure control / Personal protection

Control parameters

Occupational exposure limits:	Under conditions which may generate mists, the following exposure limits are recommended: ACGIH TLV TWA: 5 mg/m ³ ; STEL: 10 mg/m ³ .
Appropriate engineering controls:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure	Emissions from ventilation or work process equipment should be



SAFETY DATA SHEET

REV: 00 DATE: 4 OCTOBER 2016

HIGH PERFORMANCE GEAR OIL EP90(API GL-5)

controls:	checked to ensure they comply with the requirements of environmental protection legislation.
Individual protection measures	
Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

9. Physical and Chemical Properties

Form:	Liquid
Colour:	clear
Odour:	Aromatic hydrocarbon.
Density, kg/litre @15°C	0.89
Flashpoint COC, °C:	232
Kinematic Viscosity ,mm2/s @40°C	183.5
Kinematic Viscosity, mm2/s @100°C	16.8
Pour Point, °C	-12

10. Stability and Reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Incompatibility (material to be avoid):	Oxidizing materials.
Conditions to be avoid:	Keep away from sources of ignition.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous decomposition	Under normal conditions of storage and use, hazardous



SAFETY DATA SHEET

REV: 00 DATE: 4 OCTOBER 2016

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products: decomposition products should not be produced.

11. Toxicological Information

Acute toxicity

There is no data available.

Carcinogenicity

Product/ingredient name: Distillates, hydrotreated heavy paraffinic

OSHA :-

IARC :-

NTP :-

ACGIH :A4

EPA :-

NIOSH :-

Specific target organ toxicity (single exposure)

Name : Long-chain alkenyl amine

Category : Category 3

Route of exposure : Not applicable.

Target organs : Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name : Long-chain alkenyl amine

Category : Category 2

Route of exposure : Not determined

Target organs : Not determined

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Aspiration hazard

Name : 1-Decene, homopolymer, hydrogenated

Result : ASPIRATION HAZARD - Category 1

Name : Distillates, hydrotreated heavy paraffinic

Result : ASPIRATION HAZARD - Category 1

Potential acute health effects

Eye contact : Causes eye irritation.

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Delayed and immediate effects and also chronic effects from short and long term exposure

No known significant effects or critical hazards.

Potential chronic health effects : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Numerical measures of toxicity



SAFETY DATA SHEET

REV: 00 DATE: 4 OCTOBER 2016

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Acute toxicity estimates

There is no data available.

12. Ecological Information

Toxicity

Product/ingredient name : 1-Propene, 2-methyl-, homopolymer
Result : Acute LC50 >5600000 µg/l Fresh water
Species : Fish - Oncorhynchus mykiss
Exposure : 96 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name : Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated
LogP_{ow} : >6.5
BCF : -
Potential : high

Mobility in soil

Soil/water partition coefficient (K_{OC}) : There is no data available.
Other adverse effects : No known significant effects or critical hazards.

13. Disposal Considerations

Waste Disposal Method: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport Information

DOT shipping name : non-regulated
DOT label : not applicable
DOT identification No.: not applicable
Supplemental section 12 information:
IMDG, IATA/ICAO, TDG – non – regulated

15. Regulatory Information



SAFETY DATA SHEET

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HIGH PERFORMANCE GEAR OIL EP90(API GL-5)

U.S. Federal regulations :

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 311: Ethylbenzene; Benzene; Naphthalene

Clean Water Act (CWA) 307: Propylene oxide; Ethylbenzene; Benzene; Naphthalene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

16. Other Information

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use and determine whether they are appropriate.

*** End Of SDS ***



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