

SAFETY DATA SHEET



Gear Power HD Oils

Supplier	Piston Power Chemicals CC
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Product name: Gear Power HD Oils
Product type: Oil for automotive gears
Product safety guide: lubricants

2. HAZARD IDENTIFICATION

Injurious to health

No specific hazard under normal use conditions. Prolonged or repeated exposure may give rise to dermatitis. Used oil may contain harmful impurities.

Safety aspects

Not classified as flammable but will burn

Environmental danger

Not readily biodegradable. Expected to have high potential to bioaccumulate.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Blend of highly refined mineral oils and additives

On the basis of available information, the components of this preparation are not expected to impart hazardous properties to this product.

4. FIRST AID

General

In severe cases : Not expected to give rise to an acute hazard under normal conditions of use.

Inhalation

Do not normally give rise to harmful vapours. However, In the unlikely event of dizziness or nausea, remove casualty to fresh air. If symptoms persist, obtain medical attention.

Skin Contact

Slight to moderate irritation. In case of irritation remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical advice.

Eye Contact

Slightly irritating on repeated and prolonged exposure. In case of eye exposure flush eye with copious quantities of water. Contact a doctor if irritation persists.

Ingestion

Aspiration into lungs gives rise to intense local irritation. This is not likely to arise during normal use. If ingestion occurs, do not induce vomiting. Wash out mouth with water and obtain medical attention.

Medical Information

Treat symptomatically. Aspiration into lungs may cause chemical pneumonitis. Dermatitis may result from prolonged and repeated exposure.

5. Hazards Identification

Human Health Hazards: No specific hazards under normal use conditions.
Contains mineral oil for which an exposure limit for oil mist applies
Prolonged or repeated exposure may give rise to dermatitis.
Used oil may contain harmful impurities.

Safety hazards: Not classified as flammable, but will burn.

Environmental hazards: Not readily biodegradable
Expected to have a high potential to bio-accumulate.

Other information: Not classified as dangerous for supply or conveyance.

6. FIRE FIGHTING MEASURES

Extinguishing Media

Foam and dry chemical powder. Carbon dioxide, sand or earth should be used for small fires only.
Water in a jet must not be used.

Fire and Explosion hazards

Combustion is likely to give rise to airborne solids and liquid particulate and gases, including carbon monoxide, oxides of sulphur, and unidentified organic and inorganic compounds

Special protective equipment

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

7. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with skin. Wear impermeable gloves and boots. Nitrile rubber gloves.

Environmental precaution

Prevent from spreading and entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

Method of cleaning up

Small spills may be absorbed with sand or earth and removed to a suitable, clearly marked container for disposal in accordance with local regulations.

Large spills must be prevented from spreading by making a barrier. Reclaim liquid directly or by absorbing as for small spills.

8. HANDLING AND STORAGE

When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

Store in a cool, dry, well-ventilated place. Avoid direct sunlight, heat sources, and strong oxidising agents

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid at ambient
Colour	Amber
Odour	Slightly Hydrocarbon
Boiling Point	Greater than 300°C
Pour Point	Less than --18°C
Flash point	Greater than 218°C
Auto- Ignition Temperature	Greater than 300°C
Density	Typically 0.89 – 0.91 Kg/L
Vapour pressure	Less than 0.5Pa at 20°C
Vapour Density (Air =1)	Greater than 1 (estimated value)
Water Solubility	Negligible
Octanol/water partition coefficient	Greater than 6 (based on information on similar product)
Viscosity	SAE 90 - Typically 165 cSt at 40°C SAE 80W-90 - Typically 1150 cSt at 40°C SAE 85W-140 - Typically 405 cSt at 40°C

10. STABILITY/REACTIVITY

Stability: Stable
 Conditions to avoid: Extremes of temperature and direct sunlight
 Materials to avoid: Strong oxidising agents
 Hazardous decomposition products: Hazardous decomposition products are not expected to form during normal storage

11. TOXICOLOGICAL INFORMATION

Toxicological data have not been determined specifically for this product. Information given is based on data on the components and the toxicology of similar products.

Acute toxicity – oral: LD50 expected to be above 2000 mg/kg
 Acute toxicity – dermal: LD50 expected to be above 2000 mg/kg
 Acute toxicity – inhalation: Data not available.
 Eye irritation: Expected to be slightly irritant
 Skin irritation: Expected to be slightly irritant
 Respiratory irritation: If mists are inhaled, slight irritation of the respiratory tract may occur.
 Skin sensitisation: Not expected to be a skin sensitiser.
 Carcinogenicity: Product is based on mineral oils of types shown to be non-carcinogenic in animal skin-painting studies.

12. ECOLOGICAL INFORMATION

Eco-toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the eco-toxicology of similar products.

Mobility:	Liquid under most environmental conditions. Floats on water If it enters soil, it will absorb to soil particles and will not be mobile.
Persistence/degradability:	Not readily biodegradable Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
Bio-accumulation:	Has the potential to bio-accumulate.
Eco-toxicity:	Poorly soluble mixture May cause physical fouling of aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Waste disposal:	Recycle or dispose of in accordance with prevailing regulations to a recognised collector or contractor. The competence of the contractor to deal satisfactorily with this type of product should be established beforehand. Waste product should not be allowed to contaminate soil or water, or be disposed of into the environment.
Product disposal:	As for waste disposal Container disposal: 200 litre drums should be drained and returned to the supplier or sent to a drum reconditioner without removing or defacing markings or labels.

14. TRANSPORT INFORMATION

SABS 0228 Class	Not regulated
IMDG Class	Not regulated
IATA-DGR Class	Not regulated

South African Transport Legislation : See SABS 0228, 0229, 0230, 0231, 0232-1, 0232-3, 1398, 1518.

Not dangerous for conveyance under UN, IMO, ADR/RID and IATA/ICAO codes.

15. REGULATORY INFORMATION

EC classification: Not classified as dangerous under EC criteria

16. REGULATORY INFORMATION

MSDS Version Number : 2

MSDS Effective Date : 1 November 2011

Disclaimer

All information and instructions in this MSDS are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to **the product as such**. It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein, even when supplied to third parties, is passed onto and is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the responsibility of the user to comply with applicable National, International and local laws and regulations.