



BIG ENOUGH TO SERVICE
SMALL ENOUGH TO CARE

FLEETLINE GEAR OILS EP80W90 (GL –5)

High performance, multipurpose extreme pressure gear lubricant, themaly stable and formulated with clean gear technology for applications where API GL5 is required.

Application

- Manual transmissions, transaxles, planetary hub & other spur gear axles which specifically require EP gear oils meeting API GL-5 – Automotive hypoid gear differentials operating under high speed and or low speed, high torque conditions.
- Heavy duty, non-synchronized manual transmissions and transaxles.
- Automotive steering gears.

Performance level (API GL5)

Meets or exceeds:

- Multipurpose EP or hypoid gear oil
- MIL-2105 E
- Us Millitary specifications MIL – PRF – 2105E
- Mack GO -5

Benefits

High performance, EP additive system controls transmission gear tooth wear, excellent load carrying capacity to protect gear equipment against surface stress under heavily loaded conditions
GL-5 gear oils have been fortified with anti-wear,anti-oxidant,anti-foam,anti-corrosion and extreme pressure additives

TYPICAL PHYSICAL CHARACTERISTICS	80w90
Viscosity Cst @ 40 ℃	135-142
Viscosity Cst @ 100 ℃	13-16
Viscosity index	107-109
Pour point ℃ (MAX)	-30
Timken OK load kg	27

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	FLEETLINE AUTOMATIC GEAR OIL
Manufacturer/Supplier	FLEETLINE LUBRICANTS PO BOX 9699 Bloemfontein 9300
Fax	051 433 4337
Mobile	082 800 4599
E-mail	bertus@fleetline.co.za
Website	www.fleetline.co.za

2. COMPOSITION/INFORMATION ON THE COMPONENTS**Hazardous Components in Product**

Component Name	Codes	Concentration	R Phrases	Classification
SOLVENT REFINED MINERAL OIL		90.00 - 95.00		
PERFORMANCE AGENTS		2.00 - 5.00		

3. HAZARD IDENTIFICATION

Main Hazards	Not hazardous according to OSHA 29 CFR 1910.1200
Health Effects – Eyes	May cause irritation to the eyes.
Health Effects – Skin	No hazard providing normal cleansing is carried out.
Health Effects – Ingestion	No problems expected for minor ingestion. However, for amounts exceeding ½ liter give 1 or 2 glasses of water and call a doctor.
Health Effects – Inhalation	May cause irritation, dizziness or nausea if inhaled over a prolonged period, especially whilst hot.

4. FIRST AID MEASURES

First Aid – Eyes	Flush thoroughly with water. If irritation occurs, call a doctor.
First Aid – Skin	Wash skin with soap and water.
First Aid – Ingestion	Wash out mouth with water. Obtain medical attention. Do not induce vomiting.
First Aid – Inhalation	Remove from exposure and if the patient experiences irritation, nausea or unconsciousness, seek medical assistance.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use foam, dry chemical, carbon dioxide or water fog.
Unsuitable Extinguishing Media	Do not use water jet.
Special Hazards of Product	No special hazards.
Protective Equip, for Fire-Fighting	Wear self-contained breathing apparatus for fires in enclosed spaces.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Material can create slippery conditions underfoot.
Environmental Precautions	Try to prevent the material from entering drains or watercourses.
Spillages	Contain and absorb using diatomaceous earth or other inert material. Transfer into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling	No special precautions are required.
Storage	Storage temperature should be controlled to between 1 and 40 °C. Where outside storage of drums is unavoidable, they should be stored horizontally to avoid ingress of water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards OIL MIST, CHEMICAL	UK EH40: OES 5mg/m ³ 8 h TWA. UK EH40: OES 10mg/m ³ 15 min TWA.
Engineering Control Measures	Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Use of the basic principles of industrial Hygiene will enable this material to be used safely.
Respiratory Protection	Respiratory protection is not normally required.
Hand Protection	No special protection needed. However, good personal hygiene practices should always be followed.
Eye Protection	Chemical goggles if there is a risk of eye contact.
Body Protection	Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Colour	Amber
Odour	Faint
pH	N/A
Boiling Range/Point (°C)	Boils above 320°C
Flash Point (PMCC) (°C)	Exceeds 200 °C
Solubility in Water (kg/m ³)	Insoluble
Density (kg/m ³)	0.885 kg per litre
Auto-flammability (°C)	Above 350°C
Viscosity (cSt)	

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to Avoid	Strong oxidation
Materials to Avoid	Strong oxidizing agents
Hazardous Decomposition Products	Combustion will generate carbon monoxide and smoke, possibly thick and choking, resulting in zero visibility.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Low order of acute toxicity.
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12. ECOLOGICAL INFORMATION

Mobility	The product will leach into soil and will float on water.
Persistence/Degradability	The product is expected to biodegrade very slowly with time.

13. DISPOSAL

Product Disposal	Dispose of in accordance with all applicable local and national regulations.
Container Disposal	An approved drum recycler can recycle containers.

14. TRANSPORT INFORMATION

Un Class	Not classified
IMO Class	Not classified
IMDG Class	Not classified
IATA Class	Not classified

15. REGULATORY INFORMATION

Labelling information	Irritant
Government Inventory Status	Not established.
US Superfund Amendments	This product contains no "Extremely Hazardous Substances"

16. OTHER INFORMATION

MSDS First Issued	01 May 2001
MSDS Data Revised	01 May 2001
Product Use	Automotive gear oil.

To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user.

