



ZetaLube

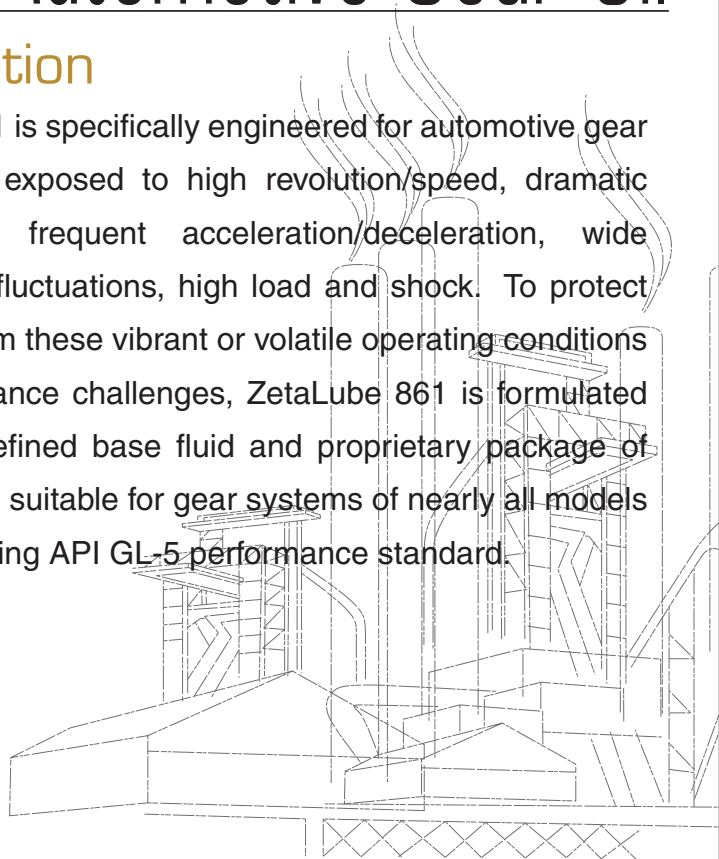
A New Lubricity Dimension
Evolved From Experience



ZetaLube 861 Automotive Gear Oil

Description

ZetaLube 861 is specifically engineered for automotive gear sets usually exposed to high revolution/speed, dramatic gear shifts, frequent acceleration/deceleration, wide temperature fluctuations, high load and shock. To protect the gears from these vibrant or volatile operating conditions and maintenance challenges, ZetaLube 861 is formulated with highly refined base fluid and proprietary package of additives. It is suitable for gear systems of nearly all models of cars requiring API GL-5 performance standard.



MAGNA INDUSTRIAL CO. LIMITED
Total Quality Maintenance

www.magnagroup.com

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Features and Benefits

- Enhanced load-carrying capacity for protection against surface distress under highly loaded conditions.
- Multi-viscosity grades for ensuring performance at low and high ambient temperatures.
- Excellent oxidation & thermal stability with corrosion inhibitors to protect gears against sludge, rust, and corrosive materials under high temperatures.
- Anti-foam additive to prevent foaming which is detrimental to the gear performance.
- Extends gear life and reduces maintenance costs.



Recommended Applications

- For use in all light and heavy-duty, automotive, commercial applications requiring SAE 80W90, 85W140, and 75W90 EP gear lube.
- For differentials, transfer cases, transaxles, manual transmissions, oil lubricated wheel bearings, and steering gear boxes where API GL-5 lubricants is recommended.
- Always check the owner's manual for manufacturers' maintenance requirements and recommendations such as gear oil specifications, recommended oil-change interval/mileage, etc.

Typical Data

TEST	ASTM TEST METHOD	SAE 80W90	SAE 85W140	SAE 75W90
Appearance	Visual	Tacky	Tacky	Tacky
Density, kg/L @ 15°C	D-1298	0.899	0.901	0.883
Viscosity, cSt @ 40°C @ 100°C	D-445	150	330	103
	D-445	15.5	25.0	14.5
Viscosity Index	D-2270	104	99	145
Flash Point, COC, °C(°F)	D-92	250(482)	258(496)	215(419)
Pour Point °C(°F)	D-97	-33(-27.4)	-21(-5.8)	-32(-25.6)

The data shown are typical value and may vary.

Pack-size

20 Litre Plastic Container

Authorized Distributor

Alshawi Trading,
Block 351, Road 51, Bldg 20, Manama - Bahrain.
www.alshawitrading.com
info@alshawitrading.com
P. O. Box : 33526

Tel: (973) 1755 0019
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MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

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IDENTITY (As Used on Label and List) ZETALUBE 861	LAST ASSESSED: 29 May 2007
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SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<i>Hazardous Components (Specific Chemical Identity: Common Name(s))</i>	<i>CAS NO.</i>	<i>ACGIH TLV</i>	<i>Other Limits Recommended</i>
Highly refined mineral oil**	64742-65-0	5mg/m ³ *	-
Highly refined mineral oil**	64742-62-7	5mg/m ³ *	-

SECTION II - PHYSICAL CHARACTERISTICS

<i>Boiling Point</i>	N.A.	<i>Specific Gravity (H₂O = 1)</i>	~0.90
<i>Vapor Pressure (@25°C, mmHg)</i>	N.A.	<i>Melting Point</i>	N.A.
<i>Vapor Density (AIR = 1)</i>	N.A.	<i>Evaporation Rate (Ether = 1)</i>	N.A.

Solubility in Water < 0.1g/l

Appearance and Odor Tacky amber liquid with negligible odor

SECTION III - FIRE AND EXPLOSION HAZARD DATA

<i>Flash Point (Method Used)</i> >150°C	<i>Flammable Limits</i> N.A.	<i>LEL</i> -	<i>UEL</i> -
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Extinguishing Media

Dry chemical, water fog, carbon dioxide, foam, and sand.

Special Fire Fighting Procedures

Fire fighters should wear an approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

None expected. Autoignition temperature is in excess of 250°C.

SECTION IV - REACTIVITY DATA

<i>Stability</i> Stable	<i>Conditions to Avoid</i> None
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Incompatibility (Materials to Avoid)

Strong oxidizing agents.

Hazardous Decomposition or Products

Oxides of carbon.

<i>Hazardous Polymerization</i> Will Not Occur	<i>Condition to Avoid</i> None
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SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

See section I hazardous ingredients

Effects of Overexposure

There is no lethal dose information available.

Inhalation: Inhalation of vapours can cause irritation of the respiratory tract. High concentrations of oils, mists or vapours can cause chemical pneumonitis.

Skin: May cause irritation, drying and cracking.

Eyes: Cause irritation.

Ingestion: May cause irritation in mouth and stomach, thirst, nausea, vomiting, diarrhoea, with possible collapse if large amounts ingested.

Aspiration of material upon vomiting may cause chemical pneumonitis.

Emergency & First Aid Procedures

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately.

Skin contact: Wash thoroughly with soap and water.

Inhalation: N.A.

If swallowed: Call a physician immediately.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken In Case Material Is Released or Spilt

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, and vermiculite. Sweep up and dispose of as solid waste comply with all local and national regulations.

Waste Disposal Method

By methods consistent with local and national regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products.

Other Precautions

Keep out of the reach of children.

SECTION VII - CONTROL MEASURES

Respiratory Protection (Specify Type)

None required

Ventilation	Local Exhaust	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.
Protective Gloves	Eye Protection	
Rubber or plastic oil resistant gloves.	Safety goggles and full-face shield when handled hot.	

Other Protective Clothing or Equipment

None required

Work/Hygienic Practices

N.A.

Remarks

* The ACGIH TLV for mineral oil mists is 5mg/m³ for a daily 8-hour exposure.
** Contains less than 3% DMSO extract as measured by IP346.

Transportation: Not classified.

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