



**ZetaLube**

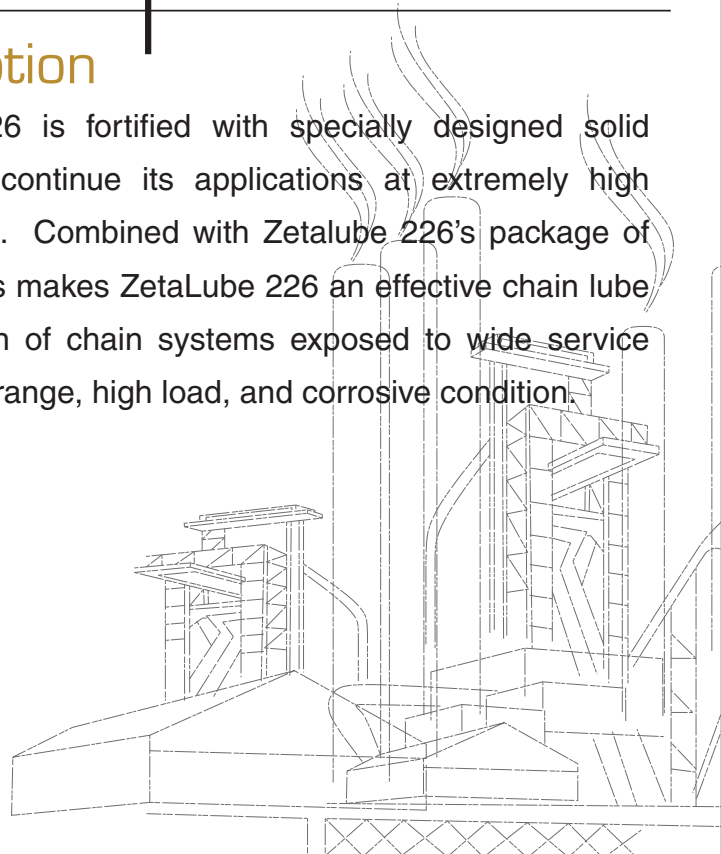
A New Lubricity Dimension  
Evolved From Experience



# ZetaLube 226 Graphite Chain Oil

## Description

ZetaLube 226 is fortified with specially designed solid lubricant to continue its applications at extremely high temperatures. Combined with ZetaLube 226's package of additives, this makes ZetaLube 226 an effective chain lube for lubrication of chain systems exposed to wide service temperature range, high load, and corrosive condition.



**MAGNA INDUSTRIAL CO. LIMITED**  
*Total Quality Maintenance*

[www.magnagroup.com](http://www.magnagroup.com)

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## Features and Benefits

- Performs equally well at sub-zero down to -25°C(-13°F) and extremely high temperatures up to 400°C(750°F) – good pumpability at low temperatures and excellent lubricity at high temperatures.
- Excellent anti-corrosion, anti-wear, and anti-foam properties – increases service life of chain system and decrease maintenance and replacement costs of chains.
- Outstanding oxidation resistance to prevent carbon residue and varnish from depositing in the chain system.

## Recommended Applications

- For lubrication of all chain - chain drives, chain pulleys, conveyors, etc constantly exposed to extremely high temperatures and high load.
- For chain systems of machinery/equipment such as stenter and dryer operating at high temperatures.

## Typical Data

TEST	ASTM TEST METHOD	ISO VG 100
Appearance	Visual	Grey/Black
Density, kg/L @ 15°C	D-1298	0.895
Viscosity, cSt @ 40°C @ 100°C	D-445	100
	D-445	11
Viscosity Index	D-2270	105
Flash Point, COC, °C(°F)	D-92	261
Pour Point °C(°F)	D-97	-23

The data shown are typical value and may vary.

## Pack-size

205 Litre Metal Drum & 20 Litre Plastic Container

### Authorized Distributor

**Alshawi Trading,**  
Block 351, Road 51, Bldg 20, Manama - Bahrain.  
[www.alshawitrading.com](http://www.alshawitrading.com)  
[info@alshawitrading.com](mailto:info@alshawitrading.com)  
P. O. Box : 33526

Tel: (973) 1755 0019  
Fax: (973) 1755 5108

**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.

ZETALUBE DIVISION  
MAGNA INDUSTRIAL CO. LIMITED  
18/F., GUARDIAN HOUSE,  
32 OI KWAN ROAD, WANCHAI,  
HONG KONG

TEL: (852) 2577 5187

FAX: (852) 2577 3190

<b>IDENTITY (As Used on Label and List)</b> <b>ZETALUBE 226</b>	<b>LAST ASSESSED:</b> 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	5.0mg/m <sup>3</sup> *	-
Highly refined mineral oil**	64741-62-7	5.0mg/m <sup>3</sup> *	-
Graphite	7440-44-0	-	***

**SECTION II - PHYSICAL CHARACTERISTICS**

<i>Boiling Point</i>	N.A.	<i>Specific Gravity (H<sub>2</sub>O = 1)</i>	~0.9
<i>Vapor Pressure (N.A.)</i>	N.A.	<i>Melting Point</i>	>180°C
<i>Vapor Density (AIR = 1)</i>	N.A.	<i>Evaporation Rate (Ether = 1)</i>	N.A.

*Solubility in Water* <0.1 g/l

*Appearance and Odor* Tacky black paste with negligible odor

**SECTION III - FIRE AND EXPLOSION HAZARD DATA**

<i>Flash Point (Method Used)</i>	<i>Flammable Limits</i>	<i>LEL</i>	<i>UEL</i>
>240°C	N.A.	-	-

***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 450°C.

**SECTION IV - REACTIVITY DATA**

<i>Stability</i>	<i>Conditions to Avoid</i>
Stable	None

***Incompatibility (Materials to Avoid)***

Strong oxidizing agents

***Hazardous Decomposition or Products***

Oxides of carbon

<i>Hazardous Polymerization</i>	<i>Condition to Avoid</i>
Will Not Occur	None

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**SECTION V - HEALTH HAZARD DATA**

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**Threshold Limit Value**

See section I hazardous ingredients

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**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.

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**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.

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**SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE**

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**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.

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**Waste Disposal Method**

By methods consistent with local and national regulations.

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**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.

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**Other Precautions**

Keep out of the reach of children.

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**SECTION VII - CONTROL MEASURES**

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**Respiratory Protection (Specify Type)**

None required

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<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Special</b>
	N.A.	N.A.
	<b>Mechanical (General)</b>	<b>Other</b>
	N.A.	N.A.

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**Protective Gloves**

Rubber or plastic oil resistant gloves.

**Eye Protection**

Safety goggles and full-face shield when handled hot.

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**Other Protective Clothing or Equipment**

None required

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**Work/Hygienic Practices**

N.A.

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**Remarks**

\* The ACGIH TLV for mineral oil mists is 5mg/m<sup>3</sup> for a daily 8-hour exposure.  
\*\* Contains less than 3% DMSO extract as measured by IP346.  
\*\*\* PEL TWA = 3.5mg/m<sup>3</sup>

Transportation: Not classified.

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