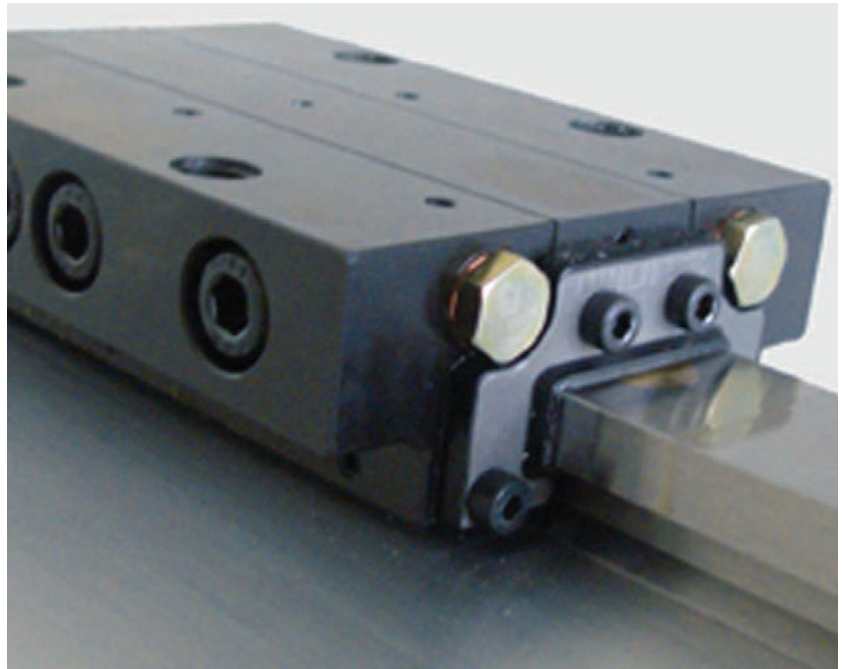




ZetaLube

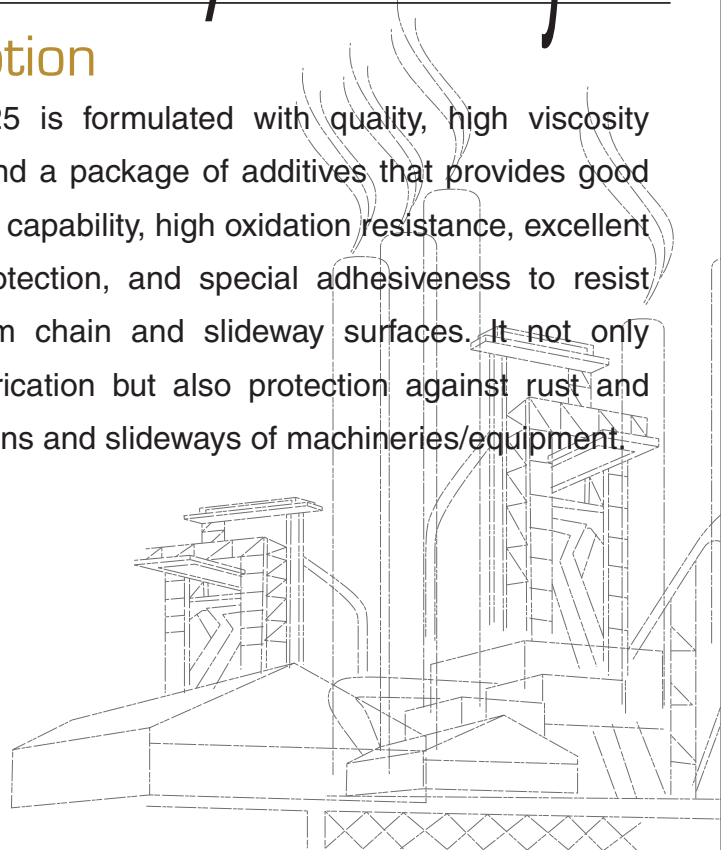
A New Lubricity Dimension
Evolved From Experience



ZetaLube. 225 Chain / Slideway Oil

Description

ZetaLube 225 is formulated with quality, high viscosity mineral oil and a package of additives that provides good load-carrying capability, high oxidation resistance, excellent corrosion protection, and special adhesiveness to resist wash-off from chain and slideway surfaces. It not only provides lubrication but also protection against rust and wears to chains and slideways of machineries/equipment.



MAGNA INDUSTRIAL CO. LIMITED
Total Quality Maintenance

www.magnagroup.com

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Features and Benefits

- Good load-carrying performance to resist shock, load and impact – available in a range of viscosity grade for medium- to high-load carrying capabilities.
- High levels of adhesiveness and emulsion number offer extra protection to chains and slideways against water wash-off and subsequently rusting caused by moisture.
- Prevents stick-slip on machine slideways - optimizes the performance of machinery/equipment.
- High oxidation resistance – eliminates the formation of carbon residues and/or varnishes that are damaging to machinery/equipment.
- Provides excellent corrosion protection to the chains & slideways – ultimately extend machinery/equipment life.

Recommended Applications

- For lubrication of chains and machine ways subjected to high load and steam / moisture.
- Suitable for use on:
 - Slideway of machine tools such as lathes, drilling and tapping machines, etc. exposed to high loads.
 - Chain drives, conveyor chains, etc.
- For gears, bearings and/or machine parts where tacky oil is required.

Typical Data

TEST	ISO VG 68	ISO VG 100	ISO VG 150
Density, kg/L @ 20°C	0.872	0.875	0.878
Viscosity, cSt @ 40°C	68	100	150
Flash Point (Open Cup), °C(°F)	>230	>230	>230
Pour Point °C(°F)	-11	-10	-10
Copper Strip Test	1b	1b	1b

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
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

IDENTITY (As Used on Label and List) ZETALUBE 225	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 *	-

SECTION II - PHYSICAL CHARACTERISTICS

<i>Boiling Point</i>	N.A.	<i>Specific Gravity (H₂O = 1)</i>	~0.9
<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 Negligible

Appearance and Odor Amber liquid with mineral oil odor

SECTION III - FIRE AND EXPLOSION HAZARD DATA

<i>Flash Point (Method Used)</i>	<i>Flammable Limits</i>	<i>LEL</i>	<i>UEL</i>
>200°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, hydrogen peroxide, chromic acid, bromine.

Hazardous Decomposition or Products

Incomplete combustion and high temperature thermal decomposition may promote oxides of carbon, sulfur and phosphorus.

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

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.

Transportation: Not classified.

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