

Omega 65

DESCRIPTION:

Omega 65 is a 'premier' lubricant especially designed for ultra long-term preservation of today's chains, cables and wire ropes.

Omega 65 contains a precise percentage of high-contrast fluorinated polymers in the form of methacrylates. These special supplements provide critical and essential boundary formation that stops creep or squeeze-out. It has an avid affinity for metal. This attraction provides the interfacial tenacity to prevent squeeze-out at even the most critical CDAP (Change Direction Apex Point). It is a well-known fact that 90% of all manufactured lubricants used on chains, cables and wire ropes squeeze out during the first hours of service!

HIGH PURITY:

Omega 65 is a high-purity lubricant that provides a new dimension to penetration quality requirements. This special aspect ensures that cables, wire ropes and chains become completely saturated. This promotes a state of equipment self-lubrication!

RELIABILITY:

Ordinary lubricants rapidly evaporate, even in mild climatic conditions. This leaves equipment susceptible to oxidation, corrosion, rust, rigidity, and eventually failure. Since equipment life depends on the long-term reliability of chains, cables and wire ropes, their failure can cause untold damage.

PROTECTION:

Omega 65 provides exceptional long-term protection for the following: -

Anchor Chains	Disc Couplings	Multiple Strand Ropes
Ball Mills	Elevators	Roller Chains
Block & Jaw Coupling	Enclosed Malleable Iron chains	
Sling Chains	Closed End Chains	Hoist Chains
Conveyor Chains	Marine Equipment	Transmission Chains
Crane Cables	Mine Head equipment	6 x 7 Strand Ropes
Detachable Link Chains	Mobile Lifts	6 x 19 Warrington Ropes

TENACITY:

Omega 65's protection extends to both reduced motion and high-speed equipment because Omega 65 has multiple surface tenacity that will not fling off. Ordinary lubricants -often supplied as chain, wire rope or cable lubricants - rapidly lose strength and decrease equipment flexibility. This promotes surface breakdown and rapid failure. Even the initial lubrication which is incorporated during manufacture seeps out or dries up. This is often caused by low grade or inadequate film strength, lack of correct adhesiveness, dropping out (which also leaves the equipment prone to corrosion and oxidation) and sensitivity to climatic alterations.

Omega 65 meets and exceeds the requirements of all chain, wire rope and cable manufacturers including ' Oil-Rite Corp'.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Mineral Oil Base: -		
Viscosity @100°F, SUS	D-88	350
Flash Point, COC, °C (°F)	D-92	157(315)
Dropping Point, °C (°F)	D-566	Not Applicable
Worked Penetration @77°F, 150 gm cone	D-217	400-430
Rust Prevention	D-1743	#1 rating
Oxidation Stability, lbs, loss in 100 hrs.	D-942	5.0 max.
Free Alkalinity, Ca (OH) ₂ %Wt.	-	0.5 min.
Graphite Content, %wt.	-	1.0
Tenacity tension, Dyn/cm.	-	25
NLGI Grade	-	#00
Operating Temperature Range, °C (°F)	-	-29 to 149 (-20 to 300)
Color	-	Dark Brown

MAGNA INDUSTRIAL CO. LIMITED

Total Quality Maintenance

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O-65 p.1

MATERIAL SAFETY DATA SHEET

DATE 01 Aug 2014

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name/Code Omega 65

Company Identification

Omega Manufacturing Division,
Magna Industrial Co. Limited,
1801, Guardian House,
32 Oi Kwan Road,
Wanchai, Hong Kong.

Distributor

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

Telephone (852) 25775187
Fax (852) 25773190

Telephone (973) 1755 0019
Fax (973) 1755 5108

SECTION 2 - HAZARDS IDENTIFICATION

Not classified as hazardous.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS Number</u>	<u>Wt.%</u>	<u>Classification</u>
Highly refined mineral oil**	64741-96-4	60-100	-
Graphite	7782-42-5	1-2	-

SECTION 4 - FIRST-AID MEASURES

Eye Contact: Flush with plenty of water for at least 15 minutes. Seek immediate medical attention.

Skin Contact: Wash thoroughly with soap and water. Obtain medical attention in case of skin irritation or other cause for concern.

Inhalation: Move patient to open air.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

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O-65 p.2

SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media: Dry chemical, waterfog, foam, sand and carbon dioxide.

Special Protective Equipment for Fire Fighters: Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Dense smoke. Carbon dioxide, carbon monoxide.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spillage: Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, vermiculite. Sweep up and dispose of in accordance with local and national regulations.

SECTION 7 - HANDLING AND STORAGE

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

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH TLV

Highly refined mineral oil	5 mg/m ³ (oil mist)
Graphite	2 mg/m ³

Eye Protection: Safety goggles and full-face shield

Hand Protection: Rubber or plastic oil resistant gloves.

Ventilation: Use under well ventilated conditions.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark brown semi-solid grease

Odour: Mineral oil odor

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O-65 p.3

pH: N.A.
Specific Gravity: 0.9
Vapour Pressure: N.A.
Boiling Point: N.A.
Melting Point: N.A.
Flash Point: above 180°C
Flammability: N.A.
Evaporation Rate: N.A.
Solubility in Water: Insoluble

SECTION 10 - STABILITY AND REACTIVITY

Stable under normal condition.

Materials to Avoid: Strong oxidizing agents, hydrogen peroxide, chromic acid, bromine.

Toxic compounds may form on thermal decomposition. Hazardous combustion products : carbon monoxide, carbon dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

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.

SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is available at present.

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O-65 p.4

SECTION 13 - DISPOSAL CONSIDERATIONS

Comply with all local and national regulations regarding disposal.

SECTION 14 - TRANSPORT INFORMATION

UN Number : Not regulated

IATA Class : Not regulated, Packing Group: Not regulated

IMDG Class : Not regulated, Packing Group: Not regulated

Not considered hazardous for transport purpose.

SECTION 15 - REGULATORY INFORMATION

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SECTION 16 - OTHER INFORMATION

R-phrases: -

S-phrases: -

**The highly refined mineral oil used in this product contains less than 3% DMSO extract as measured by IP 346.

Remarks: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.