

Omega 71

DESCRIPTION:

Omega 71 is a stable drop point grease with a resistance to temperatures of up to 260°C (500°F)! Ordinary greases have unstable drop points because they conform to the "soap" type greases, which deteriorate rapidly under high heat conditions. Omega 71 however, contains solid and highly-micronized supplements that are impossible to melt-providing a "carrier" for the mineral oil. As carrier, they ensure that Omega 71 remains stable up to -and including -the drop point of beyond 260°C (500°F). Ordinary greases cannot cope with temperature changes and begin to melt at a temperature well below 260°C (500°F).

LUBRICITY:

Omega 71 is much more than just a temperature-resistant lubricant. It also provides exceptional lubricity that retards wear and prolongs equipment life.

SUPPLEMENT PROTECTION:

Omega 71 contains a solid supplement. This consists of montmorillonite particles which form a bearing between metal surfaces that will not break down -even under extreme temperatures! Ordinary greases cannot provide this "barrier" and subsequently, the grease rapidly disintegrates.

THERMO HYDRODYNAMIC LUBRICATION:

Omega 71 provides maximum protection for a wide variety of equipment. This is made possible by the development of a hydrodynamic concept in Omega 71, whereby a "wedge" is formed between areas subjected to constant wear. This wedge resists not only the evaporative tendency of the heat cycle but also the immense friction barrier caused by heat and pressure formations. The ability of Omega 71 to suppress this natural force of lubricant migration is an outstanding feature unique to the Omega family.

Ordinary grease being utilized for high temperature applications rapidly break down and leave the wear areas unprotected. This promotes metal-to-metal contact which, in turn, causes wear -and shortly thereafter, complete and total parts seizure. Additionally, ordinary greases are inconsistent and need constant replenishment. Their unreliable tendency to become fluid and fling off has hazardous effects on the equipment and its maintenance.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Mineral Oil Base: -		
Viscosity @210 °F(98.8°C), SUS	D-88	80
Flash Point, COC, °C	D-92	249
Pour Point, °C	D-97	-23
Dropping Point, °C	D-566	260+
Worked Penetration @ 77°F, 150-gm cone	D-217	265-295
Timken OK Load, lbs. min.	D-2509	40
Bearing Stability	D-1741	Excellent
Copper Corrosion Test	D-1402	Excellent
Humidity Corrosion @ 18°C, %	D-5319	0.01
Evaporation Loss	D-972	Minimal
Oil Separation, @ 100°C, 30hrs, %	D-1742	3.1
NLGI Grade	-	#2
Operating Temperature Range, °C	-	-20 to 204
Color	-	Golden Bronze

MAGNA INDUSTRIAL CO. LIMITED

Total Quality Maintenance

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MATERIAL SAFETY DATA SHEET

DATE 01 Aug 2014

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name/Code Omega 71

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.
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P.O.Box 33526

Telephone (852) 25775187
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Telephone (973) 1755 0019
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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	-
Thickener	68953-58-2	5-15	-

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.

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

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/m³ (oil mist)

Eye Protection: Safety goggles and full face shield.

Hand Protection: Rubber or plastic oil resistant gloves.

Ventilation: Use under well ventilated conditions

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gold sparkle semi-solid grease

Odour: Mineral oil odor

pH: N.A.

Specific Gravity: 0.9

Vapour Pressure: N.A.

Boiling Point: N.A.

Melting Point: N.A.

Flash Point: 249°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

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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.

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.

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