

Omega 670

DESCRIPTION:

Omega 670 is a hundred percent STRAIGHT paraffinic gear oil designed for high-purity gear applications. It contains the result of a unique blending procedure whereby the finest quality, solvent-refined Paraffinic Oil is gelled with hyper-purity and dewaxed cylinder-quality mineral base oils which provide the superb standard of lubricity that ordinary gear oils are unable to attain.

CORROSION RESISTANCE:

Omega 670 is inhibited against corrosion and oxidation. Its pure saturated characteristic ensures gear surface protection at all times.

FOAMING RESISTANCE:

Omega 670 is also foam resistant and it can withstand sustained gear action without aerating.

INCREASED FILM STRENGTH:

Omega 670 is superior to the other so-called 'straight' mineral oils because its increased film strength can resist wear. This product protects gears for longer periods under severe conditions.

ACIDIC ACTION RESISTANCE:

As a result of Omega 670's purity, the normal oxidation characteristic which forms damaging acidic deposits is impossible.

OPERATING TEMPERATURE:

Omega 670 operates at both ultra-low temperatures where ordinary oils begin to drag and consume costly energy, and at higher temperatures where its body structure remains stable. Ordinary oils thin down so badly that gears rapidly deteriorate and fail.

AGMA STANDARDS:

Regardless of enclosure, speed, size, environment, method of lubrication and the accessibility of gears, Omega 670 provides an exceptionally high viscosity standard that combats galling, rippling, pitting and similar gear failure faults. Ordinary gear oils cannot cope with the type of operation that today's high speed, high powered gears are fabricated for.

TYPICAL DATA:

TEST	ASTM		
	TEST METHOD	SAE90	SAE 140
ISO Viscosity Grade	D-2422	220	460
Appearance	Visual	Amber	Light Amber
Density, kg/L @ 15.0°C	D-1298	0.892	0.901
Viscosity, cSt @ 40°C	D-445	220	460
@ 100°C	D-445	19.1	31.6
Viscosity Index	D-2270	98	99
Flash Point, COC, °C	D-92	270	303
Pour Point, °C	D-97	-24	-21
Total Acid Number, mg KOH/g	D-974	0.61	0.61
Foaming Characteristics - All Sequences, After Settling	D-892	Nil	Nil
Oxidation Stability - TOST life, hours	D-943	>3000	>2000
Rust-Preventing Characteristics			
Distilled Water	D-665A	Pass	Pass
Synthetic Sea Water	D-665B	Pass	Pass
FZG (Fail Load Stage)	CEC L07-A-95	11	11

The characteristics given above are typical of current production only and slight batch to batch variations should be expected.

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 670

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

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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**	64742-65-0	60-100	-

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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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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber liquid

Odour: Mineral oil odour

pH: N.A.

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Specific Gravity: 0.90
Vapour Pressure: N.A.
Boiling Point: N.A.
Melting Point: N.A.
Flash Point: above 100°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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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.