

Omega 51

DESCRIPTION:

Omega 51 is a highly versatile grease that is ideally suited for use in all high speed electric motors and bearings, including roller, needle, and practically all other types of bearings.

EXTENSIVE RESEARCH:

Omega 51 is the result of complex dielectric lubricant research and is formulated on the recently developed Anisthenic system for centrifugal stability. Precise quantities of micronized cyanthropis suspended in synergistic fluids ensure an unprecedented dimension in total surface and subsurface lubrication protection.

HIGH-PURITY:

Omega 51 is a premier-purity lubricant and as such, should not be mixed with, or come into contact with ordinary greases. Systems and parts should be thoroughly flushed before using Omega 51.

ADDED ADHESIVENESS:

Omega 51 ensures a surface tenacity that no ordinary lubricant can provide. Omega 51 will stay in position, even under washout conditions, thus ensuring long production runs under cooler and more protective conditions.

PREVENTION OF WEAR AND LONGER EQUIPMENT LIFE:

Omega 51 ensures that equipment moving parts are protected and, as a result, the operational lifespan of the equipment is greatly increased, thereby assuring the continued function of the equipment.

LOWER COEFFICIENT OF FRICTION:

Omega 51, due to its lower coefficient of friction, heralds a new era in bearing speed capacity. Omega 51 contains a specially developed gellant that enables formerly limited speed bearings to undertake considerably more efficient and productive speeds in keeping with modern equipment design and construction.

APPLICATIONS:

Omega 51 can be used in any number of different and varied operations: Ball bearings, Roller Bearings, Needle Bearings, High (and Low) Speed Bearings, Conveyors, Cranes, Crushers, Paper Mill Machinery and Equipment, Pumps, Winches, Hammer Mills and many other operations. This lubricant provides maximum equipment protection for longer periods because it ensures total surface coverage, even under extreme conditions.

Omega 51 can be used as a single, multi-purpose grease on construction projects, steel mills and all type of bearings including hand-packed bearings, grease fittings, wheel bearings and many others.

TYPICAL DATA:

Omega 51 meets and exceeds Ford MIC 75B Specifications.

TEST	ASTM TEST METHOD	TEST RESULT
Mineral Oil Base: -		
Viscosity @ 210°F, SUS	D-88	80
Flash Point, COC, °C (°F)	D-92	221(430)
Pour Point, COC, °C (°F)	D-97	-15(5)
Dropping Point, °C (°F)	D-566	176(350)
Worked Penetration @77°C, 150 gm cone	D-217	265-295
Timken OK Load, lbs. min.	D-2509	45
Rust Prevention	D-1743	#1 rating
Oxidation Stability, lbs. loss in 100 hrs.	D-942	5.0
Water Washout, % loss after 2 hrs. @ 175°F	D-1264	7.0
Lubricant Stability	-	#1 rating
NLGI Grade	-	#2
Operating Temperature Range °C (°F)	-	-7 to 148 (20 to 300)
Color	-	Moly Grey

SUPPLEMENTS:

Color Coding	Yes
Exceptional Shear Stability	Yes
Extreme Pressure Properties	Yes
Megalite Supplements	Yes
Molybdenum Disulfide	Yes
Oxidation Resistors	Yes
Performance Improvers	Yes
Rust Inhibitors	Yes
Water Resistance Additives	Yes

MAGNA INDUSTRIAL CO. LIMITED

Total Quality Maintenance

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MATERIAL SAFETY DATA SHEET

DATE 01 Apr 2015

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name/Code Omega 51

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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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**	64742-65-0	60-100	-
Molybdenum disulphide	1317-33-5	1-10	-

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, carbon dioxide. Do not use water.

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	5mg/m ³ (oil mist)
Molybdenum disulphide	15mg/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: Moly grey semi-solid grease

Odour: Mineral oil odour

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pH: N.A.
Specific Gravity: 0.9
Vapour Pressure: N.A.
Boiling Point: N.A.
Melting Point: N.A.
Flash Point: 221°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 such as hydrogen peroxide, chromic acid, bromine.

Toxic compounds may form on thermal decomposition. Hazardous combustion products: carbon monoxide, carbon dioxide, oxides of sulphur, hydrogen sulphide depending upon decomposition conditions.

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, sprays 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.