Ωmega 33

DESCRIPTION:

Omega 33 is a special diester synthetic compound with an exceptionally high flashpoint. Additives include the unique "Megalite" family of supplements, ensuring extreme temperature resistance up to 315°C (600°F) - and for short periods of exposure. Special viscosity improvers using hybridic polymers have been developed to extend the service life of this lubricant.

Omega 33 is a revolutionary lubricant in that it is potentially the first lubricant to utilize the capillary system of film formation. This means that the lubricant remains stable at all times - irregardless of temperature fluctuations, which has been the major obstacle with all ordinary greases. The high temperature resistance of Omega 33 is nearly double that of ordinary greases.

SPECIAL TEXTURE IMPROVERS:

Omega 33 consists of fine fibre texture improvers which come from a breakaway substance called "carbonitic black". This ensures that the texture remains static during severe temperature operations by encapsulation in an unbreakable, impenetrable outer skin.

APPLICATIONS:

Omega 33 is primarily a high temperature-resistant lubricant engineered for high temperature exposure conditions. Kilns and surface baking operations, food processing, steam pumps, babbitt bearings, tooling equipment, foundry machines and equipment, autoclaves, chemical processing, laboratory work, surgical sterilization equipment - there is almost no extreme temperature condition that Omega 33 cannot handle.

RELIABILITY:

Omega 33 stays in position after application. Its unique design causes it to form an outer heat-resistant coating while the inner lubricant continues to perform under extreme heat conditions.

EQUIPMENT LASTS LONGER:

Using Omega 33, high temperature equipment usually lasts considerably longer, and runs for substantially longer periods without maintenance.

SUPPLEMENTS:

Foam Inhibitors	**Yes**
Calcinated Hydro-Carbons	**Yes**
Carbonitic Black	**Yes**
Climatic Adjustors	**Yes**
Extreme Pressure Properties	**Yes**
Molybdenum Disulphide	**Yes**
Nuclear Reactor Stability	**Yes**
Oxidation Resistors	**Yes**
Mechanical Stability Improvers	**Yes**
Shear Stability Improvers	**Yes**
Rust Inhibitors	**Yes**

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Base Fluid: -		
Specific Gravity @ 15°C (60°F)	D-1298	0.9365
Viscosity @ 100°F SUS	D-88	3000-3500
Viscosity @ 210°F, SUS	D-88	250
Viscosity Index	D2270	140
Flash Point, COC, °C (°F)	D-92	316(600)
Dropping Point, °C (°F)	D566	None
Worked Penetration @ 77°F, 150 gm cone	D-217	275-305
Timken OK Load, Lbs. min.	D-2509	40
Rust Prevention	D-1743	# 1 Rating
Oxidation Stability, p.s.i. loss in 100 hours	D-942	5
Water Washout,% Loss after 2 hrs @ 175°F	D-1264	4
Roll Stability, Point Change	D-1831	10
Lubricant Stability	-	# 1 Rating
NLGI Grade	-	# 2
Operating Temperature Range, °C (°F)	-	-20 to 232
	-	(-1 to 450)
Color		Black

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 33

Company Identification

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

Telephone (852) 25775187
Fax (852) 25773190

Distributor

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

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

SECTION 2 - HAZARDS IDENTIFICATION

Not classified as hazardous.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Wt.%	Classification
Diester	68552-19-2	30-60	-
Polybutene	9003-29-6	10-30	-
Carbon black as thickener	1333-6-4	1-10	-
Molybdenum disulfide	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.

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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
Carbon black as thickener	3.5 mg/m^3
Molybdenum disulphide	15.0 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: Black semi-solid grease
Odour: Oil smell

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pH: N.A.
Specific Gravity: 1.02
Vapour Pressure: N.A.
Boiling Point: N.A.
Melting Point: N.A.
Flash Point: 306°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: -