

Omega 658

DESCRIPTION:

Omega 658 is a revolutionary, emulsifiable, cutting and cooling fluid that penetrates rapidly deep into the shear zone of machining operations to minimize the internal friction between the cutting tool and work piece. It is excellent in preventing metal-to-metal bonding which, in turn, leads to increased tool life and metalworking efficiency.

OUTSTANDING HIGH LUBRICITY FEATURES:

Omega 658 instantly removes the heat generated by both internal and external friction away from the cutting tool and work piece. In addition, Omega 658 provides enhanced high lubricity that prevents heat buildup and lowers the temperature in the shear zone thereby prolonging tool life by at least 100%. It also aids the surface finish of the work and further increases production rates. In development testing, performance is improved between 50% to more than 100%.

SUPER SAFE:

Omega 658 is super safe as it is non-flammable and will not generate nauseating fumes or odors in normal use. It is non-hazardous by current definition as outlined by The Occupational Safety and Health (OSHA) ACT. In addition, it contains no sulphur, chlorine, nitrites or lead compounds.

Omega 658 is non-irritating to skin as it has a very low toxicity. However, the use of protection gloves and barrier cream is recommended when highly concentrated Omega 658 is used over long periods.

SUPER ECONOMY:

Omega 658 can be diluted with 10 to 40 parts of water, depending on the severity of the metalworking process. It can be used on a wide variety of metals and alloys. It contains proprietary and highly effective inhibitors to prevent rust and corrosion of equipment and tools as well as finished products.

SERVICE CONSIDERATIONS:

Omega 658 is designed to be used with water with hardness not exceeding 400mg/kg as calcium. For water with hardness exceeding 400mg/kg, a water softener is recommended.

Omega 658 should be mixed with water by adding the oil to the total volume of water while stirring. This forms an oil-in-water mixture. Adding the water to the oil may result in a water-in-oil emulsion that can be thick and oily and unsuitable for machining and grinding.

TYPICAL DATA:

TEST	SOLUBLE OIL
Flash Point, COC, °C	174
Pour Point, °C	-12
Viscosity, Kinematic cSt @40°C	43.6

MAGNA INDUSTRIAL CO. LIMITED

Total Quality Maintenance

1801, Guardian House, 32 Oi Kwan Road, Wanchai, Hong Kong Tel: (852) 2577 5187 Fax: (852) 2577 3190
E-Mail: magna@magnagroup.com Web Site: www.magnagroup.com

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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 658

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**	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: Dark amber liquid

Odour: Mineral oil odour

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pH: N.A.
Specific Gravity: 0.90
Vapour Pressure: N.A.
Boiling Point: >200°C
Melting Point: N.A.
Flash Point: 174°C
Flammability: N.A.
Evaporation Rate: N.A.
Solubility in Water: Miscible

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.