

# Omega 906

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## **RADIATOR RUST INHIBITOR & WATER PUMP LUBRICANT:**

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Probably the most neglected part of a car or truck is the cooling system. Most vehicle owners give the cooling system only cursory attention. The cooling systems of today's modern engines face two great difficulties. These are lack of lubrication and rust. Lack of lubrication results in the pre-mature failure of the water pump, and also causes sticking of the thermostat and improper operation of the thermostat, Rust can and often does cause complete radiator failure.

## **PRESENT PROBLEMS:**

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Surveys show that 1 out of every 5 vehicles have cooling system breakdowns each year, especially in summertime. A cooling system breakdown in a private car is inconvenient but such a breakdown in a commercial vehicle such as a truck or lorry or a mining or construction vehicle can prove disastrous and is usually exceedingly expensive in lost production and repair cost. One vehicle failure usually holds up more than that one vehicle, Substantial lost production, upset schedules, wasted man-hours, delayed deliveries and lost customers can be the costly result of the cooling system failure of a commercial vehicle.

Radiators and cooling systems in modern vehicles have to work much harder than cooling systems had to in the past, It is much more important today than ever in the past to use Omega 906 water pump lubricant and radiator conditioner. Today, vehicles are much more apt to have cooling system breakdowns than in the past.

The internal combustion engine has a thermal efficiency of only about 25%. 75% of that energy is wasted, mostly in the form of heat. If this excess heat is not removed properly, it can cause great damage to both the transmission and engine parts. The cooling system has to absorb and dissipate about half this heat via various mechanical parts and the fluid in the radiator, (A small percentage of vehicles are air cooled).

## **OMEGA 906 - THE PROBLEM SOLVER:**

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Omega 906 is the solution to 98% of all cooling system problems, It does the following things: -

- (1) It raises the boiling point of the water thus causing a greater differential between the cooling air and the core, which greatly increases the radiator heat transfer.
- (2) Stops water pump cavitation which enables a higher coolant flow rate.
- (3) Inhibits corrosion, As is well known, several different metals are used together in radiator construction including cast iron, copper, steel, aluminium, brass and solder. These metal have different places in the galvanic scale and galvanic action will occur unless Omega 906 is used , Omega 906 retards corrosion of all metals.
- (4) Omega 906 controls scale and greatly increases cooling system efficiency. A variety of water is used in coolant systems and many of these waters are high in mineral content . This causes scaling in even the hottest parts of the engine and restricts and retards the transfer of heat from the engine block. A mere 1. 5 mm of mineral scale will cause a drop of up to 40% in heat transfer, Scale can cause warped engine blocks and heads and overheating damage.

## **FORMULA:**

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50-75ml Omega 906 for every 10 litres radiator water capacity every 8, 000kms. For heavily scaled and corroded surfaces, repeat draining the system at more frequent intervals until all scale is removed.

## **HOW TO APPLY:**

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- (1) When the engine is cold, remove the radiator cap. Drain the radiator through the drain plug or drain cock. To speed the draining process, the drain plug or plugs in the block can also be removed.
- (2) Reinstall the block drain plugs and close the drain cock. Fill the cooling system with water.

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*Total Quality Maintenance*

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## MATERIAL SAFETY DATA SHEET

DATE 01-Aug-14

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### SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product Name/Code**                      Omega 906

**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](http://www.alshawitrading.com)  
[info@alshawitrading.com](mailto:info@alshawitrading.com)  
P.O.Box 33526

Telephone                      (852) 25775187  
Fax                                (852) 25773190

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

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### SECTION 2 - HAZARDS IDENTIFICATION

Not classified as hazardous.

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### 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	-

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### 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.

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## 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.

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## 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.

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## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### ACGIH TLV

Highly refined mineral oil                      5 mg/m<sup>3</sup> (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: Dark amber liquid

Odour: Mineral oil odour

pH: N.A.

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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

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## 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.

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## 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.

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## 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.

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## 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.

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## 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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**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.