

# Omega 992

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## DESCRIPTION:

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Omega 992 "Power Jet" is a Fuel Injection Booster which is added to both gasoline and diesel cars through the fuel tank at fill-up, It is designed and engineered to restore fuel injector efficiency rapidly so that "as new" performance is attainable. In addition, Omega 992 helps control "vapour lock" (water in the fuel system) which can cause hard-starting, rough idle and sluggish throttle response.

An added benefit of Omega 992 is that, since the system is introduced through the fuel tank, its special oxidation inhibitors will protect the tank, the fuel line, the fuel pump, the injector itself and also all internal parts of the engine from the onset of rust.

## SOAKDOWN:

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Although injectors are kept relatively cool during engine operation, the heat "soakdown" on shutting/switching off forms deposits from the fuel on the nozzle itself. These deposits impede and reduce the proper atomization of the fuel flow into the engine cylinder which, in turn, causes loss of power, poor acceleration, rough idling, hard starting and a host of other problems.

(\* Heat soakdown occurs because, when an engine is switched off, the oil pump -which circulates engine oil in and round engine parts -also ceases operating; the cooling fan is switched off; and the engine coolant system (radiator) also is no longer operating. Therefore, immediately an engine is switched off, the latent engine heat "soaks" into the engine and, with no cooling aid, the temperature temporarily increases dramatically before dissipating into the ambient atmosphere).

## CAUSE OF INJECTOR DEPOSITS:

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The principle source of gasoline injector fouling is the fuel composition; the fouling deposits are mainly gums and coke. This fuel composition effect is attributed to olefins and diolefins in the fuel. These form deposits at temperatures between 90-105°C (162-221°F) -the heat soakdown region!!! The problem can occur, even in new cars, within the first 3,000 to 7,000 miles (4800

to 11,000 km) of operation.

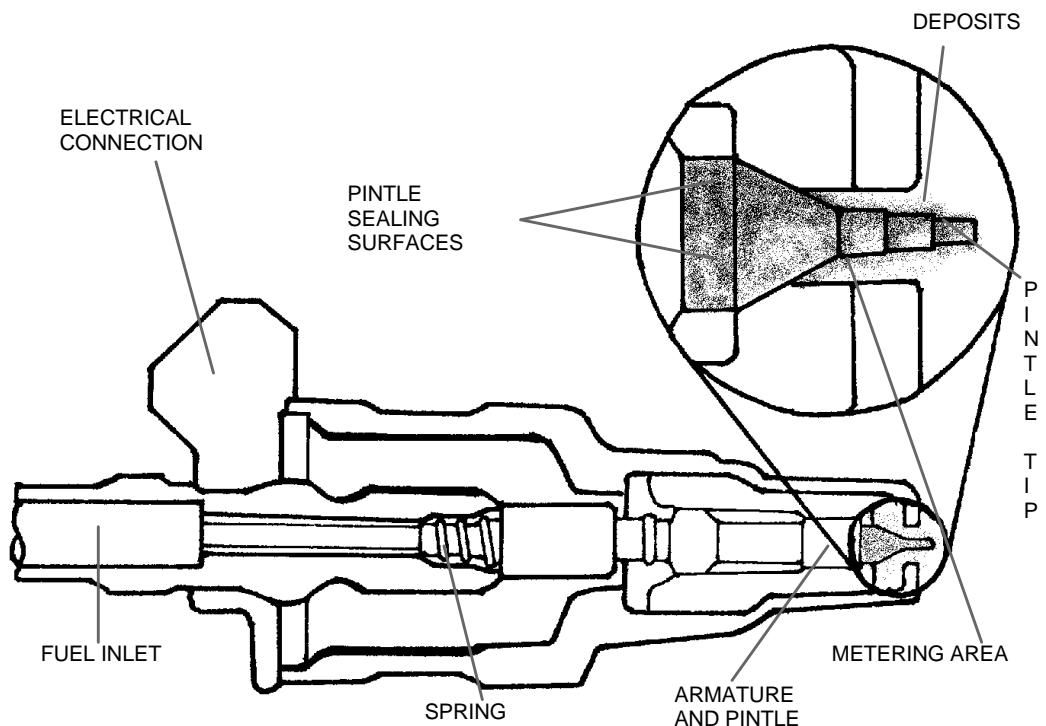
### EXISTING FUEL INJECTOR DEFICIENCIES:

Port-type fuel injection has literally taken the automotive world by storm. Current estimates suggest that 90% of new U.S. model cars and 65% of new European models are fitted with fuel injection engines. The Japanese models, due to their export orientation, is adapted to fit different markets, but the trend is unmistakably toward fuel-injected models being in the majority.

Of the types of fuel injectors used, the mechanical type is less prone to injector clogging problems while the most vulnerable is the electronic multipoint injection system.

### OMEGA 992 'POWER JET':

At the injector tip, where deposits form in and around the pintle tip (see diagram below), the pressurized flow of Omega 992 "Power Jet" dislodges the deposits and carries these away into the combustion chamber of the engine, to be ignited and burned away -leaving the fuel injector's metering area clean and back within tolerance. By removing the deposits, the vital and precise metering to vaporization is restored and the engine operates "as-new" again.



### APPLICATION:

Precise measuring of dosage is possible thanks to the special Omega 992

applicator. Omega 992 comes concentrated and dosage rates are therefore economical.

ECONOMY (COMPACT) CARS WITH FUEL CAPACITY OF APPROX. 8-10 GALLONS (30-38 LITRES)	1/2oz.(15ml.) every fill-up
MEDIUM-SIZED CARS WITH FUEL CAPACITY OF APPROX. 10-18 GALLONS (38-70 LITRES)	1oz.(30ml.) with every fill-up
LARGE CARS AND LIGHT TRUCKS WITH FUEL CAPACITY OF OVER 20 GALLONS (76+LITRES)	1oz. (30ml.) to every 16 gallons (60 Litres)

Omega 992 is effective for both fuel injected gasoline (petrol) and diesel vehicles. (All diesel engines use fuel injection).

# SAFETY DATA SHEET



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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name: Omega 992  
Container size: 16 oz. (473 ml)                      **\*\*Manufactured in USA\*\***

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Application: Cleaning liquid / mineral oil

### 1.3. Details of the supplier of the safety data sheet

Supplier: EU importer: Sovereign Lubricants (UK) Ltd, Crowtrees Lane,  
Rastrick, West Yorkshire, HD6 3LZ  
T: 01484 718674 - F: 01484 400164  
enquiries@sovereign-omega.co.uk  
www.sovereign-omega.co.uk

Manufacturer ITW PP & F Korea Limited.  
13th Fl., Unit B, PAX Tower  
609 Eonju-ro, Gangnam-gu  
Seoul, Korea 06108  
Tel:+82-2-2088-3560  
Fax:+82-2-513-3567  
www.magnagroup.com

### 1.4. Emergency telephone number

Emergency telephone: Call a Poison Center, emergency number or doctor/physician.

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## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

CLP: Eye Irrit. 2;H319  
Aquatic Chronic 3;H412

### 2.2. Label elements



#### Warning

H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

P280 Wear eye protection and gloves.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with local regulations.

### 2.3. Other hazards

Other: Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema, skin cracking and oil acne. Degreasing to skin. The harmful effects may increase in used oil. Oil spills are generally hazardous to the environment.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

The product contains: mineral oil and additives.

Only classified substances above threshold limits or substances with an exposure limit are shown.

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## CLP:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No.:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
1-5	-	-	-	Hydrocarbyl amine	Aquatic Chronic 3;H412	
1-5	64741-86-2	265-088-7	-	Distillates (petroleum), sweetened middle; Gasoil- unspecified	Flam. Liq. 3;H226 Asp. Tox. 1;H304 Aquatic Chronic 2;H411	
1-5	-	-	-	Polyetheramine	Eye Dam. 1;H318 Skin Irrit. 2;H315 Aquatic Acute 1;H400	
1-5	64742-94-5	265-198-5	-	Solvent naphtha (petroleum), heavy arom.; Kerosine-unspecified	Flam Liq. 3;H226 Asp. Tox. 1;H304 Eye Irrit. 2;H319 Aquatic Chronic 4;H413	
0,1-0,2	91-20-3	202-049-5	-	Naphthalene	Carc. 2;H351 Acute Tox. 4;H302 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	

References: The full text for all hazard statements is displayed in section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

Inhalation: Move into fresh air and keep at rest. In case of persistent throat irritation or coughing or after inhalation of oil mist: Seek medical attention and bring along these instructions.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects: See section 11 for more detailed information on health effects and symptoms.

### 4.3. Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.

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## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

Extinguishing media: Small fires: Extinguish with carbon dioxide or dry powder.  
Larger fires: Extinguish with foam, carbon dioxide or dry powder.  
Do not use water jet as an extinguisher, as this will spread the fire.

### **5.2. Special hazards arising from the substance or mixture**

Specific hazards: During fire, gases hazardous to health may be formed.

### **5.3. Advice for firefighters**

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions: Avoid inhalation of vapours and contact with skin and eyes. In case of spills, beware of slippery floors and surfaces. Follow precautions for safe handling described in this safety data sheet.

### **6.2. Environmental precautions**

Environmental precautions: Do not discharge into drains, water courses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

Methods for cleaning up: Absorb spillage with oil-absorbing material. Clean contaminated area with oil-removing material.

### **6.4. Reference to other sections**

References: For personal protection, see section 8.  
For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

Safe handling advice: Observe good chemical hygiene practices. Avoid prolonged and repeated contact with oil, particularly used oil. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets.

Technical measures: Use work methods which minimise oil mist production.

Technical precautions: When working with heated oil, mechanical ventilation may be required.

### **7.2. Conditions for safe storage, including any incompatibilities**

Technical measures for safe storage: No special precautions.

Storage conditions: Store in tightly closed original container in a well-ventilated place.

### **7.3. Specific end use(s)**

Specific use(s): Not relevant.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

No occupational exposure limit assigned.

### 8.2. Exposure controls

<u>Engineering measures:</u>	Provide adequate ventilation and minimise the risk of inhalation of vapours and oil mist. Provide access to washing facilities incl. soap, skin cleanser and fatty cream.
<u>Personal protection:</u>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<u>Respiratory equipment:</u>	In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with combination filter (type A2/P3) can be used.
<u>Hand protection:</u>	Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Other types of gloves can be recommended by the glove supplier.
<u>Eye protection:</u>	Risk of contact: Wear goggles/face shield.
<u>Skin protection:</u>	Wear apron or protective clothing in case of splashes.
<u>Hygiene measures:</u>	Wash hands after contact. Wash contaminated clothing before reuse.
<u>Environmental Exposure Controls:</u>	Not available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<u>Appearance:</u>	clear yellow liquid
<u>Odour:</u>	of solvents
<u>pH:</u>	not relevant
<u>Boiling point:</u>	not available
<u>Flash point:</u>	70°C
<u>Explosive limits</u>	not available
<u>Vapour pressure:</u>	not available
<u>Relative density:</u>	0,85
<u>Solubility:</u>	insoluble in water
<u>Decomposition temperature (°C):</u>	not available

### 9.2. Other information

Other data: Not available.

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity: None known.

### 10.2. Chemical stability

Stability: Stable under normal temperature conditions.

### 10.3. Possibility of hazardous reactions

Hazardous Reactions: None known.

### 10.4. Conditions to avoid

Conditions to avoid Heating.

### 10.5. Incompatible materials

Incompatible materials: Strong oxidising substances.

### 10.6. Hazardous decomposition products

Hazardous decomposition products: None in particular.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute Toxicity (Oral): Based on available data, the classification criteria are not met.

Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.

Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive Toxicity: Based on available data, the classification criteria are not met.

STOT - Single exposure: Based on available data, the classification criteria are not met.

STOT - Repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Inhalation: Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.

Skin contact: Degreasing. Prolonged or frequent contact may cause redness, itching, irritation, eczema, skin cracking and oil acne.

Eye contact: Splashes may irritate.

Ingestion: May irritate and cause malaise.

Specific effects: Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.  
Contains a substance which may be potentially carcinogenic.

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## SECTION 12: ECOLOGICAL INFORMATION

### **12.1. Toxicity**

Ecotoxicity: Harmful to aquatic life with long lasting effects.

The product contains a substance which is very toxic to aquatic organisms.  
Expected LC/EC50 value:  $0,1 < LC50 \leq 1$  mg/l (Polyetheramine)

The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.  
Expected LC/EC50 value:  $0,1 < LC50 \leq 1$  mg/l (Naphthalene)

### **12.2. Persistence and degradability**

Degradability: The product is expected to be slowly biodegradable.

### **12.3. Bioaccumulative potential**

Bioaccumulative potential: No data available on bioaccumulation.

### **12.4. Mobility in soil**

Mobility: No data available.

### **12.5. Results of PBT and vPvB assessment**

PBT/vPvB: Not relevant.

### **12.6. Other adverse effects**

Other adverse effects: None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### **13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste.

Waste from residues: EWC-code: 13 02 05

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## SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### **14.1. UN number**

UN-No: Not regulated.

### **14.2. UN proper shipping name**

Proper Shipping Name: Not regulated.

### **14.3. Transport hazard class(es)**

Class: Not regulated.

### **14.4. Packing group**

PG: Not regulated.

### **14.5. Environmental hazards**

Marine pollutant: Not regulated.

### **14.6. Special precautions for user**

Special precautions: None known.

### **14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Transport in bulk: Not known.

## SECTION 15: REGULATORY INFORMATION

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

National regulation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, with amendments.  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.  
The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.  
The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

### **15.2. Chemical Safety Assessment**

CSA status: Not relevant.

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## SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

### Handling of used oils:

Protect health - avoid prolonged and repeated skin contact. Wash with soap and water. Protect the environment - do not pollute drains, water courses or the soil. Contact your local authority for any used oil disposal instructions.

The following sections contain revisions or new statements: 1, 2, 3, 4, 11, 12, 16.

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Additional information: Classification according to Regulation (EC) No. 1272/2008: Calculation method.

### Wording of H-statements:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.  
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