



The Ultimate Lubricant

# 917

## DESCRIPTION:

OMEGA 917 is a new type of lubricant designed to lubricate, protect, and prolong the life of all types of seals.

Seals on pumps, mining machinery, marine motors, construction equipment, hydraulic systems and automotive transmissions are not made to last forever. The conditions under which a piece of equipment is operated and the condition of the seal, when originally installed, determine the life of the seal. Every maintenance engineer knows that deterioration

of seals is a major cause of equipment malfunction, resulting in costly machinery downtime. It is not uncommon for seals, due to ageing, to start deteriorating even before they are installed. Due to their composition, seals must be lubricated consistently and constantly to prevent drying.

When seals dry out (shrink and crystallize), they become ineffective. When this ageing process occurs, they chip and crack, allowing severe loss of fluid.



## ECONOMY MAINTENANCE:

OMEGA 917 Seal Saver is a tremendous money-saving aid in preventive maintenance. When OMEGA 917 is added to a leaking transmission, it quickly stops the leak. When applied to any unit containing good seals, it will keep these from deteriorating in the future.

Once a seal has chipped or cracked, replacement is the only remedy. A cracked seal results in the loss of 2 or more quarts of fluid every week. A defective seal can eventually cause irreparable damage to the entire transmission or unit. Replacing a seal is a big job. The transmission must be completely removed and disassembled and this is a costly procedure.

## SPECIAL FEATURES:

OMEGA 917 contains no harmful chlorides or solvents while most transmission additives on the market today do, and these cause far more harm than good.

One of the jobs of the transmission additive is to soften the seals to restore their pliability. Solvents will do this - but solvent additives make the seals too soft. When solvent additives are used, the seal cannot stand the pressure which builds up in the unit. This is why seals "Blow".

Chlorinated additives attack rubber and soon cause irreparable damage. Moisture such as condense, when combined with the chlorides, causes chemical reactions to take place, resulting in the formation of acid. The acid attacks the metal as well as the seals and this accounts for the leaks and corrosion found in transmissions.

OMEGA 917 not only restores seals to their original rigid structure but also enables them to stay pliable enough to fulfill their function.

In the past, most engineers, mechanics and transmission men did not believe in the use of transmission or seal additives for two basic reasons:

1. Solvent additives overdo the softening job.
2. Chloride additives ruin the rubber and corrode the metal.

Therefore, ordinary types of transmission additives should not be used. Solvent-based transmission additives remove the varnish from the transmission walls and this varnish penetrates, gums up and clogs working parts, apertures and channels through which the fluid must circulate to do its job. The gums created by these ordinary transmission additives cause a lot more harm than good.



### NO HARMFUL INGREDIENTS:

OMEGA 917 is a totally different type of product. It is a completely new type of product developed by OMEGA scientists. It contains no harmful chlorides, solvents or any harmful ingredient.

The following is a comparison between 4 of the world's best-selling seal conditioners and OMEGA 917.

Composition	Product				OMEGA
	1	2	3	4	917
Petroleum	61%	59%	100%	50%	0%
Chlorinated Hydrocarbon	39%	38%	0%	37%	0%
Synthetic Oil	0%	3%	0%	13%	0%

OMEGA 917 is made from 99% PURE phosphate ester and 1% non-chlorine and non-petroleum synergistic elements.

The application of OMEGA 917 will positively stop a leaking automatic transmission in less than 160 km (100 miles) of driving, or within one week.

### UNIQUE PROPERTIES & BENEFITS:

1. When added to power steering units, will stop squeals.
2. When added to mining equipment, construction equipment and any equipment having seals, will prolong the life of the equipment by conditioning the seals and keeping them trouble-free.
3. Seals permanently when used as directed.
4. Will not burn or support combustion.
5. Is completely non-toxic and causes no problem with fumes.
6. Is odorless.

7. Is economical. Needs to be applied only once every 16,000 km (10,000 miles), or during each transmission oil change.
8. A little goes a long way - just use 180 ml. (6 ounces) per standard size automatic transmission filling.
9. Is harmless. If spilled on clothing or body, merely wash off with water.
10. Is a concentrate. 180 ml. (6 ounces) of OMEGA 917 is equivalent to 700 ml. (24 ounces) of any other transmission sealing product.
11. Will not cause acid formation.
12. Will not affect the viscosity of transmission fluids.
13. Acts as a lubricant.
14. Will not affect clutch plate linings.
15. Has high temperature pressure stability.
16. Improves the swelling of all transmission fluids.
17. Is manufactured under strict laboratory control and is thoroughly tested to high standards of guaranteed purity, uniformity, performance and quality.

#### **HOW TO USE:**

OMEGA 917 Seal Saver stops oil leakage due to seal shrinkage in hydraulic systems, automatic transmissions, and power steering units.

- Use 180 ml per standard size automatic transmission to stop oil leakage.
- 60 ml per standard size power steering unit to stop oil leakage and squealing.
- For most systems, use 1% for seal conditioning and 3% maximum to stop leakage.

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

### 1.1. Product identifier

Product name: Omega 917

Container size: 177 ml, 5 l **\*\*Manufactured in USA\*\***

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

Application: Lubricant. Sealer.

### 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  
magna@magnagroup.com  
www.magnagroup.com

### 1.4. Emergency telephone number

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

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

CLP: Not classified.

### 2.2. Label elements

The substance/mixture does not meet the criteria for classification and labelling.

### 2.3. Other hazards

PBT/vPvB: This product does not contain any PBT or vPvB substances.

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: Esters.

All substances in the product are either registered or exempt from registration under REACH.

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

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## 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: Seek medical attention and bring 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 at least 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

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

Medical attention/treatments: Treat symptomatically.

## 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.

### 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.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal precautions: Avoid contact with skin and eyes. In case of spills, beware of slippery floors and surfaces.

### **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: Dam and absorb spillages with sand, earth or other non-combustible material.

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

References: For personal protection, see section 8.

## SECTION 7: HANDLING AND STORAGE

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

Safe handling advice: Observe good chemical hygiene practices. Avoid prolonged and repeated contact.

Technical measures: Work practice should minimise contact.

Technical precautions: 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. Avoid contact with oxidising agents.

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

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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. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours and spray 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 vapours, use suitable respiratory equipment with combination filter (type A2/P3).
<u>Hand protection:</u>	Wear protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
<u>Eye protection:</u>	Risk of contact: Wear goggles/face shield.
<u>Skin protection:</u>	No special precautions.
<u>Hygiene measures:</u>	Wash hands after contact. Wash contaminated clothing before reuse.
<u>Environmental Exposure Controls:</u>	Not available.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance: Yellow, fluorescent liquid

Odour: almost odourless

Odour threshold: Not available.

pH: Not available.

Melting point / freezing point: 4,4 °C

Boiling point: 220-265 °C

Flash point: 200 °C

Evaporation rate: Not available.

Flammability (solid, gas): Not applicable.

Explosive limits Not available.

Vapour pressure: Not available.

Vapour density: Not available.

Relative density: 1,15

Solubility: Immiscible with water

Partition coefficient (n-octanol/water): Not available.

Auto-ignition temperature (°C): Not available.

Decomposition temperature (°C): Not available.

Viscosity: Not available.

Explosive properties: Not available.

Oxidising properties: Not available.

### 9.2. Other information

Other data: Not available.

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

### 10.2. Chemical stability

Stability: Stable under normal temperature conditions.

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

Conditions to avoid None specific.

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

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 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, eczema and skin cracking.

Eye contact: Splashes may irritate.

Ingestion: May irritate and cause malaise.

Specific effects: None known.

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## SECTION 12: ECOLOGICAL INFORMATION

### **12.1. Toxicity**

Ecotoxicity: Not classified as dangerous to the environment.  
Oil spills are generally hazardous to the environment.

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

Degradability: The product is slowly degradable.

### **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: This product does not contain any PBT or vPvB substances.

### **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: 16 05 08

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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: -

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

Proper Shipping Name: -

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

Class: -

### **14.4. Packing group**

PG: -

### **14.5. Environmental hazards**

Marine pollutant: -

Environmentally Hazardous substance: -

### **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 relevant.

## 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.  
EH40/2005, Workplace exposure limits 2005, with amendments.  
The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

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

CSA status: No chemical safety assessment has been carried out.

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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.

The following sections contain revisions or new statements: 2, 3, 8, 11, 12, 15, 16.

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### Abbreviations and acronyms

used in the safety data sheet: PBT = Persistent, Bioaccumulative and Toxic.  
vPvB = very Persistent and very Bioaccumulative.

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

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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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