



The Ultimate Lubricant

101

DESCRIPTION:

Omega 101 "The Fixer" is a liquid cork designed for the permanent sealing of all recirculated water cooling systems in vehicles of all types, in heat exchange equipment, compressors, machinery and equipment. It can be applied while equipment is operating and thus effectively eliminates equipment downtime.

MAXIMUM BENEFITS:

Omega 101 contains special anti-friction additives that lubricate water pumps and a rust inhibitor that retards rust formation. It not only seals existing leaks, but also coats worn areas like depressions, to make a permanent repair and thus prevent further deterioration.

UNIVERSAL APPLICATION:

Omega 101 seals radiators. Is also stops leaks in radiator hoses, head gaskets, water jackets and water pumps. It can be safely used in all industrial, commercial and marine cooling systems which are based on recirculated water.

ONE APPLICATION TREATMENT:

Omega 101 is highly economical in use. It dissipates to spread an even, protective coating to the walls, hoses and gaskets of water cooling systems. Seals achieved by Omega 101 last indefinitely. Even should the water in the cooling systems be drained, the seals provided by Omega 101 will remain intact and will not weaken.

HOW TO APPLY:

It is not necessary to shut down operating equipment to apply Omega 101. The operational condition will in fact assist in the even distribution of the solution throughout the cooling system. No mixing or thinning is required. Add 1/4 pint of Omega 101 to each gallon (35 ml per litre) of water in the recirculating system. Dosage can be varied according to the severity of the leak. Shake well before use. If stored in very cold or very hot conditions, bring to room temperature of 15-25°C(59-77°F) before application.

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

1.1. Product identifier

Product name: Omega 101

Container size: 500 ml, 5 l ****Manufactured in Australia****

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

Application: Additive for sealing of water-cooled radiator systems.

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: NHS: 111

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP: Acute Tox. 4;H302
STOT SE 2;H371

2.2. Label elements



Warning

Contains: Methanol

H302 Harmful if swallowed.

H371 May cause damage to organs.

P260 Do not breathe vapour/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTRE/doctor/... if you feel unwell.

P233 Keep container tightly closed.

P501 Dispose of contents/container as hazardous waste.

2.3. Other hazards

Other: The product contains organic solvents. Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

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

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

CLP:

%:	CAS-No.:	EC No.:	REACH Reg. No.:	Chemical name:	Hazard classification:	Notes:
15-<25	107-21-1	203-473-3	01-2119456816-28-XXXX	Ethanediol	Acute Tox. 4;H302	
4-6	67-56-1	200-659-6	01-2119433307-44-XXXX	Methanol	Flam. Liq. 2;H225 Acute Tox. 3;H331 Acute Tox. 3;H311 Acute Tox. 3;H301 STOT SE 1;H370	

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

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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: If inhalation of vapours is suspected, move person into fresh air and call an ambulance.

Skin contact: Flush immediately with plenty of water and remove contaminated clothing. Call an ambulance, continue to rinse during transportation to hospital and bring 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. Induce vomiting, if person is conscious. Rinse mouth again and drink 1-2 glasses of water and 40 ml ethanol (liqueur). Immediate transportation to hospital. Bring along these instructions.

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

Symptoms/effects: Symptoms in case of methanol poisoning after 6 to 24 hours: headache, dizziness, stomach pains and visual disturbances. In serious cases: blindness, unconsciousness and breathing failure.

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: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

5.2. Special hazards arising from the substance or mixture

Specific hazards: When heated and in case of fire, toxic vapours/gases may be formed.

5.3. Advice for firefighters

Protective equipment for fire-fighters: Use air-supplied respirator during fire fighting.

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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. Follow precautions for safe handling described in this safety data sheet.

6.2. Environmental precautions

Environmental precautions: Avoid 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 spillage with sand, sawdust or other absorbent. Flush with plenty of water to clean spillage area.

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 inhalation of vapours and contact with skin and eyes. Wash hands before breaks and before smoking, eating or drinking.

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.

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

Occupational exposure limits:

<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>As:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>	
107-21-1	Ethane-1,2-diol, particulate	-	10 mg/m3	TWA	Sk	EH40	
107-21-1	Ethane-1,2-diol, vapour	-	20 ppm	52 mg/m3	TWA	Sk	EH40
		-	40 ppm	104 mg/m3	STEL	Sk; 15min	
67-56-1	Methanol	-	200 ppm	266 mg/m3	TWA	Sk	EH40
		-	250 ppm	333 mg/m3	STEL	Sk; 15min	

Notes: Sk: Can be absorbed through skin.
EH40: EH40/2005.

8.2. Exposure controls

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. Provide access to washing facilities incl. soap, skin cleanser and fatty cream.

Personal protection: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment: In case of inadequate ventilation: Wear air supplied respiratory protection.

Hand protection: Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.
Breakthrough time: > 4h; Thickness: > 0.3 mm
Other types of gloves can be recommended by the glove supplier.

Eye protection: Use face shield in case of splash risk.

Skin protection: Wear special protective clothing.

Hygiene measures: Wash hands after handling. Wash promptly if skin becomes wet or contaminated. Isolate contaminated clothing and wash before reuse.

Environmental Exposure Controls: Not available.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Yellow. / Suspension.
Odour: Slight odour of alcohol.
pH: 8-9
Melting point / freezing point: -5°C
Boiling point: 105°C
Flash point: not available
Explosive limits not available
Vapour pressure: not available
Relative density: 1,1
Solubility: Miscible with water.

9.2. Other information

Other data: Not relevant.

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 Avoid heat.

10.5. Incompatible materials

Incompatible materials: Strong oxidising substances, strong acids and strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products: When heated, toxic vapours are formed.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity (Oral): Harmful if swallowed.

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. May cause damage to organs.

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: Vapours may cause headache, fatigue, dizziness and nausea. Vapour may affect central nervous system and cause headache, discomfort, vomiting or intoxication.

Skin contact: Harmful: possible risk of irreversible effects in contact with skin.
Contains organic solvents which may penetrate the skin.

Eye contact: Splashes may irritate and cause redness.

Ingestion: Harmful: possible risk of irreversible effects if swallowed.
Ingestion may result in unconsciousness, blindness and death. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness.

Specific effects: Possible risk of irreversible effects. In serious cases absorption of methanol in the body may lead to damage to the eyesight.
Ethylene glycol: May cause damage to the kidneys.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: The environmental hazard of the product is considered to be limited.

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: No data available.

12.6. Other adverse effects

Other adverse effects: The product contains volatile, organic compounds which have a photochemical ozone creation potential.

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:
14 06 03
16 05 08

Contaminated packaging: EWC-code: 15 01 10

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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: -

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

Transport in bulk: -

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SECTION 15: REGULATORY INFORMATION

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

Special provisions: As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.

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 Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242), with amendments.
The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

15.2. Chemical Safety Assessment

CSA status: No information available.

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SECTION 16: OTHER INFORMATION

For restrictions on use see section 15.

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

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The Omega Trade Mark is the property of ITW, Inc., and is used under license by ITW PP & F Korea Limited.

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

Key literature references and sources for data: None.

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

Wording of H-statements:

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H371e	May cause damage to organs if swallowed.

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.

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