699

Ωmega
The Ultimate Lubricant

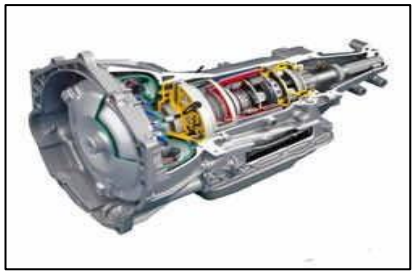
DESCRIPTION:

Enhanced with a more advanced formulation, the new OMEGA 699 is designed to satisfy the requirements of all major vehicles manufacturers. It is a blend of premium quality synthetic base oils and a specifically balanced additive package. The new OMEGA 699 offers high oxidation stability, excellent foam resistance, improved corrosion and wear protection, and outstanding heat resistance.

To provide smooth lock-up of clutches without chatter, the complex fluid is also compounded with a unique friction-modifying additive. The new synthetic OMEGA 699 is a truly multi-purpose fluid that meets and exceeds most original equipment manufacturers' specifications for automatic transmission fluid.

THERMAL STABILITY:

OMEGA 699 has a built-in heat resistance up to 176°C. This provides the essential safety margin that prevents equipment malfunction and also promotes long-term safety.



POWER TRANSMISSION:

OMEGA 699 not only performs as the transmitting hydraulic medium, but also keeps equipment cool and lubricated. This ability to absorb heat and convert it to free energy is a unique characteristic and benefit of OMEGA 699. This energy conversion takes place only above 176°C. During the dissipation of heat energy, the molecular structure remains constant and unchanged. The pressure transference is then carried through with minimal energy consumption.

PREVENTS SLUDGE FORMATION:

OMEGA 699 is a synthetic high-purity fluid. It does not contain the heavy waxes of Naphthenics or Asphaltics and therefore will not form heavy sludges and carbon solids. This ensures that the system, the clutch plates and the seals remain clean and functional at all times. Problems such as sludge drag, gum scouring and varnish deviation are all eliminated.

INCREASED USAGE:

Whereas the ordinary fluid currently used for power transmission needs to be changed on a regular basis, OMEGA 699 can be used up to 120,000 km (One Hundred & Twenty Thousand Kilometers) without renewal.

OXIDATION RESISTANCE:

OMEGA 699 is completely oxidation-resistant. It prevents corrosion, rust and the formation of surface scale.

CLIMATICALLY STABLE:

OMEGA 699 is as efficient in winter as it is in summer. Its high viscosity index provides the temperature stability that is essential for superior automatic transmission operation.

RECOMMENDED APPLICATIONS:

OMEGA 699 is suitable for use where the following performance specifications are required:

- ✓ Allison C3, C4 TES 228 & TES 295
- ✓ Aisin Warner A-1, 3309
- ✓ Audi ZF, 5HP19FL, 5HP24A, LT7114 & Audi/VW G-052-162-A1, G-052-162-A2, G-055-005-A2
- ✓ BMW ZF, 5HP18FL, 5HP24, 5HP30, LT 71141
- ✓ Caterpillar Cat TO-2
- ✓ Chrysler & American Motors ATF +3 / ATF +4
- ✓ Daewoo LT71141
- ✓ Fiat - all vehicles
- ✓ Ford M, MV, FNR5 (for Mazda), M2C138-CJ, M2C166H, MC2C924-A
- ✓ GM DII / II-E / III / IIIG / IIIH, GM 9986195
- ✓ Hyundai / Kia SP-II, SP-III, SP-IV
- ✓ Honda ATF – Z1, DW-1 (except in CVTs)
- ✓ Isuzu - all vehicles
- ✓ Jatco 3100PL085
- ✓ JASO 1A (M315-2006)
- ✓ Jaguar M1375.4, ATF 3403 M115 / Jeep (ATF + 3, ATF + 4) & JWS 3309
- ✓ Land Rover LRN402G
- ✓ Mazda ATF M-III, M-V
- ✓ Mini Cooper T-IV (except CVT)
- ✓ Mercedes ZF 4HP20, MB 236.1; 2; 3(PSF); 5(C-4); 6; 7; 8; 9; 10
- ✓ MOPAR AS68RC ATF
- ✓ Nissan / Infiniti Matic D / J / K
- ✓ Peugeot ZF 4HP20 / Porsche ZF 5HP19FL, ATF 3403-M115, T-IV
- ✓ Opel - all vehicles
- ✓ Renault - all vehicles
- ✓ Saab 3309
- ✓ Subaru ATF, ATF-HP
- ✓ Suzuki ATF 3317
- ✓ Toyota / Lexus / Scion Type T, T-II, T-III, T-IV (GM US PN 88900925), (GM Canada PN 22689186)
- ✓ Voith H55.6335.XX(G607),Turbo, ZF, Comat
- ✓ Volvo 97340, 1161521, 1161540, T-IV, STD 1273.41
- ✓ VW / Audi Part # G052 025(09M), G 052 990(09A), G 052025 A2
- ✓ ZF TE-ML 09/11, ZF TE-ML 03D,04D,09,14, ZF TE-ML 16L,17C

Note: *Not recommended for vehicles where CVT fluids or Type F ATF are specified.*

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
ISO Viscosity Grade	D-2422	32
Color	Visual	Red
Gravity, API	D-287	35.3
Specific Gravity @ 15°C	D-1298	0.848
Viscosity @ 40°C, cSt Kinematic	D-445	35.5
Viscosity @ 100°C, cSt Kinematic	D-445	7.3
Viscosity @ -40°C, cSt Kinematic	D-2983	16,000
Viscosity Index	D-2270	169
Pour Point, °C	D-97	-40

The characteristics given above are typical of current production only and slight batch to batch variations should be expected.

SAFETY DATA SHEET

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

1.1. Product identifier

Product name: Omega 699

Container size: 5 l, 20 l & 205 l **Manufactured in Australia**

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

Application: Transmission 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.

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

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The product contains: mineral oil and additives. DMSO-content < 3%

No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure. All substances in the product are either registrered or exempt from registration under REACH.

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

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.

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 oil mist and contact with skin and eyes. 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.

7.3. Specific end use(s)

Specific use(s):	Lubricant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No occupational exposure limit assigned.

8.2. Exposure controls

Engineering measures:	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.
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 or risk of inhalation of oil mist, suitable respiratory equipment with combination filter (type A2/P3) can be used.
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:	Risk of contact: Wear goggles/face shield.
Hygiene measures:	Wash hands after contact. Wash contaminated clothing before reuse.
Environmental Exposure Controls:	Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Liquid. Oily.
Colour:	Red.
Odour:	Petroleum.
pH:	Not relevant
Boiling point:	> 300°C
Flash point:	> 180°C
Explosive limits	Not available
Vapour pressure:	< 0,01 mmHg (20°C)
Relative density:	0.848
Solubility:	Insoluble in water.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature (°C):	Not available.
Decomposition temperature (°C):	Not available.
Viscosity:	7.3 cSt (100°C)

9.2. Other information

Other data:	Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity:	Not reactive.

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	Heat, sparks, flames.

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

The harmful effects may increase in used oil.

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 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.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity:	Oil spills are generally hazardous to the environment.

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:	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

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: -

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 information available.

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: 3, 8, 11, 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.

Key literature references and sources for data: None.

Additional information: None.

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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