



Omega

The Ultimate Lubricant

57

DESCRIPTION:

Omega 57 is a completely water-resistant, extreme-pressure bearing lubricant with mercurial wear-resistance characteristics. It contains specially-developed high-impact resisting supplements. This remarkable grease solves wheel bearing problems where heat, water and extreme conditions are present. The unique Omega Megalite supplements incorporated into Omega 57 ensure longer service life since equipment on which it is used will operate under considerably cooler conditions, thereby providing a new dimension in downtime prevention.

FRICION OF COEFFICIENT:

Omega 57 reduces the friction of coefficient of close tolerances. Irregardless of design, Omega 57 "works" its way into the system to protect the moving surfaces -including expensive bearings.

PRESSURE PERFECT:

Omega 57 is capable of resisting severe and continuous impact. This characteristic of the lubricant enables it to prevent wear and to allow the bearings to function (as they were designed to function) - without hindrance.

EXCELLENT SHEAR STRENGTH:

Omega 57 has excellent shear stability and very low separation. This almost unique quality provides the tenacity essential for the protection of hard wearing bearings.

COHESIVE QUALITIES:

Omega 57 has the ability to resist even the most severe conditions and will not break down or disintegrate as ordinary greases will. Omega 57 will not alter or soften in wheel-bearing applications due to its resistance to high temperature.

APPLICATIONS:

Wheel bearing loads are concentrated in small areas. The points of greatest pressure are considered to be either the cone bearings or ball bearings. Water attack causes the greatest damage. Omega 57 resists water and, as a result, protects bearings from oxidation.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT		
		#1	#2	#3
NLGI Grade	-	#1	#2	#3
Mineral Oil Base: -				
Specific Gravity @15.0°C (60°F)	D-1298	0.9143	0.9143	0.9143
Viscosity @210°F, SUS	D-88	250-350	250-350	250-350
Viscosity Index	D-2270	110	110	110
Flash Point, COC, °C (°F)	D-92	232(450)	232(450)	232(450)
Pour Point, °C (°F)	D-97	-12(10)	-12(10)	-12(10)
Dropping Point, °C (°F)	D-566	246(475)	249(480)	249(480)
Worked Penetration @77°F, 150 gm cone	D-217	310-340	265-295	220-250
Timken OK load, lbs. min.	D-2509	40	40	40
Rust Prevention	D-1743	#1 rating	#1 rating	#1 rating
Oxidation Stability, lbs. loss in 100 hrs.	D-942	5 max.	5 max.	5 max.
Roll Stability, Point Change	D-1831	N.A.	40	40
Wheel Bearing Test, % loss	D-1263	N.A.	10	10
Operating Temperature Range, °C (°F)	-	-7 to 204 (20 to 400)	-7 to 204 (20 to 400)	0 to 204 (32 to 400)
Color	-	Blue, Sparkle	Blue, Sparkle	Blue, Sparkle

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

1.1. Product identifier

Product name: Omega 57
Container size: 15 kg

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

Application: Lubricating grease.

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

Emergency telephone: NHS: 111

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP: The product is not classified.

2.2. Label elements

The substance/mixture does not meet the criteria for classification, but the following labelling must be applied:

Safety data sheet available on request.

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 and eczema/chapping. The harmful effects may increase in used grease.

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.

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CLP:

%:	CAS-No.:	EC No.:	REACH Reg. No.:	Chemical name:	Hazard classification:	Notes:
70-100	64742-52-5	265-155-0	01-2119467170-45-XXXX	Distillates (petroleum), hydrotreated heavy naphthenic	-	L
<3	64742-55-8	265-158-7	-	Distillates (petroleum), hydrotreated light paraffinic; Baseoil-unspecified	Asp. Tox. 1;H304	L
1-<2.5	68457-79-4	270-608-0	01-2119493628-22-XXXX	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	Skin Irrit. 2;H315 Eye Dam. 1;H318 Aquatic Chronic 2;H411	SCL

Chemical name:

Distillates (petroleum), hydrotreated heavy naphthenic

Distillates (petroleum), hydrotreated light paraffinic; Baseoil-unspecified

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

SCL

Skin Irrit. 2;H315: C ≥ 15%
Eye Dam. 1;H318: C ≥ 3%
Eye Irrit. 2;H319: C ≥ 3%

Notes:

L: DMSO < 3% (IP 346)

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: Seek medical attention and bring these instructions.

Skin contact: Rinse with 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: Rinse mouth thoroughly. Get medical attention if any discomfort continues.

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.

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 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 grease, particularly used grease. Always remove grease with soap and water or skin cleaning agent, never use organic solvents.

Technical measures: Work practice should minimise contact.

Technical precautions: When working with heated grease, 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 dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

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. When working with heated grease, mechanical ventilation may be required. 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 use suitable respirator. Use respiratory equipment with combination filter, type A2/P2.
<u>Hand protection:</u>	Risk of contact: Wear protective gloves. Nitrile gloves are recommended. Breakthrough time: > 4 h, Thickness: > 0.3 mm Other types of gloves can be recommended by the glove supplier.
<u>Eye protection:</u>	Risk of contact: Wear goggles/face shield.
<u>Hygiene measures:</u>	Wash hands after handling.
<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

Physical state: Grease.
Colour: Blue.
Odour: Almost odourless.
pH: Not applicable.
Melting point / freezing point: >250°C
Boiling point: Not available.
Flash point: >200°C
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Explosive limits Not available.
Vapour pressure: Not relevant.
Vapour density: Not relevant.
Relative density: 0.8 - 0.8 @25°C
Solubility: Insoluble in 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 considered to be explosive.
Oxidising properties: Not available.
9.2. Other information
Other data: No information available.

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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 Heating.

10.5. Incompatible materials

Incompatible materials: Strong oxidising substances.

10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon oxides

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity (Oral): Based on available data, the classification criteria are not met.
Distillates (petroleum), hydrotreated heavy naphthenic:
LD50 >5000 mg/kg (Rat)

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts:
LD50: 3600 mg/kg (Rat)

Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.
Distillates (petroleum), hydrotreated heavy naphthenic:
LD50 > 5000 mg/kg (Rat)

Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.
Distillates (petroleum), hydrotreated heavy naphthenic:
LC50 > 5,53 mg/l (dust/mist), 4 hours, (Rat)

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, eczema and skin cracking.

Eye contact: Direct contact may irritate.

Ingestion: May irritate and cause malaise.

Specific effects: Prolonged or repeated contact with used grease may cause serious skin diseases, such as dermatitis. The harmful effects may increase in used grease.

11.2. Information on other hazards

Endocrine disrupting properties: The product contains no substances identified as having endocrine disrupting properties in humans.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: Greases are generally hazardous to the environment.

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts:
LC50(Fish: Cyprinodon variegatus): 46 mg/l

12.2. Persistence and degradability

Degradability: Distillates (petroleum), hydrotreated heavy naphthenic: Inherently biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Distillates (petroleum), hydrotreated heavy naphthenic:
Bioaccumulation: Is not expected to be bioaccumulable.
log Pow: 2 to 6

12.4. Mobility in soil

Mobility: Distillates (petroleum), hydrotreated heavy naphthenic: Mobile.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

Endocrine disrupting properties: The product contains no substances identified as having endocrine disrupting properties in aquatic organisms.

12.7. 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: 12 01 12

Contaminated packaging: Dispose of contaminated packings as residue.

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SECTION 14: TRANSPORT INFORMATION

The product is not regulated as dangerous goods under IMDG Code, IATA-DGR and 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.

Environmentally Hazardous substance: Not regulated.

14.6. Special precautions for user

Special precautions: Not regulated.

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

Transport in bulk: Not regulated.

SECTION 15: REGULATORY INFORMATION

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

National regulation: 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.
UK Statutory Instruments, 2021 No. 904, CONSUMER PROTECTION ENVIRONMENTAL PROTECTION HEALTH AND SAFETY. The REACH etc. (Amendment) Regulations 2021.
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: No information available.

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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. 1, 3, 7, 9, 11, 12, 13, 16.

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

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

Wording of H-statements:

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

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.
www.dhigroup.com.