608

Omega
The Ultimate Lubricant

DESCRIPTION:

Omega 608 is a chain and way lubricant specially engineered for a wide range of applications. It is a combination of superb, select base oils and highly-fortified extreme pressure supplements. It provides exceptional protection and substantially increases the operating life of equipment.

EXTENDED LIFE:

Compared with ordinary oils, Omega 608 has a superior degree of tenacity. It forms a tough, anti-compressive film that prevents seeping out and moving away from the contact areas. Thus, equipment life is greatly extended.

VERSATILITY:

Omega 608 is ideal for motorcycle and bicycle chains, conveyor chains, printing machine chains, chain saws, machine ways, trolleys, hookways, mines, etc.

OXIDATION RESISTANCE:

Unlike ordinary oils that promote the accumulation of damaging deposits - such as gums, varnishes and metal-destroying carbonaceous deposits - Omega 608 helps keep applied surfaces free from blockage that would hinder smooth operation.

HIGH VISCOSITY:

When exposed to moisture, ordinary oils wash out, leaving the metal surface unprotected. Omega 608 features high adhesiveness agents that, despite the presence of water (constant or under pressure), provides total protection.

LOAD CARRYING CAPABILITY:

The base oil and supplements of Omega 608 are fortified with extreme pressure constituents. With this remarkable property, it can resist shock, load and impact and is highly recommended for even severe operating conditions. Omega 608 prevents stick slip on machine slideways.

WATER COMPATIBILITY:

Omega 608 maintains lubrication even under oil/water conditions. Ordinary oils have inadequate emulsive qualities. Thus, water seeps into the equipment easily, causing corrosion and oxidation which rapidly forms cancerous internal rusting.

ENERGY ECONOMY:

Omega 608 is designed to penetrate "oil line feeders", providing the necessary lubrication for chains and ways. Ordinary oils tend to thin out at high temperature, providing inadequate sealing to rails and ways. Rapid gum formation and sludge build-up not only slows the equipment down but also increases energy consumption.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT		
		SAE30	SAE40	SAE50
ISO Viscosity Grade	D-2422	100	150	220
Density, Kg/L @ 15.0°C	D-1298	0.892	0.897	0.905
Viscosity, cSt @ 40.0°C	D-445	100	150	220
Viscosity, cSt @ 100.0°C	D-445	11.6	15.2	19.1
Viscosity Index	D-2270	104	102	102
Flash Point, COC, °C(°F)	D-92	237(459)	255(491)	257(495)
Pour Point, °C(°F)	D-97	-24(-11)	-24(-11)	-23(-9.4)
Total Acid Number, mg KOH/g	D-664	0.20	0.19	0.19
Carbon Residue, Conradson, % Mass	D-524	0.07	0.10	0.11
Rust-Preventing Characteristics	D-665	Pass	Pass	Pass
Copper Strip Corrosion, 3 hours @ 100°C	D-130	1a	1a	1a
Ash, % Mass	D-482	Nil	Nil	Nil
Steam Emulsion Number	IP-19	1200+	1200+	1200+
Timken OK Load, Kgs	D-2782	34	34	34
4-Ball, Wear Scar Dia, mm	D-2266	0.30	0.30	0.30
FZG, Stages Passed	DIN 51354	12	12	12

SAFETY DATA SHEET

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

1.1. Product identifier

Product name: Omega 608

Container size: 5 l, 20 l

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

Application: Chain lubricant.

1.3. Details of the supplier of the safety data sheet

Supplier: GB 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

Further information can be obtained from: magna@magnagroup.com

1.4. Emergency telephone number

Emergency telephone: Call a Poison Center, emergency number or doctor/physician.
NHS: 111

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP: The product is classified: Aquatic Chronic 3;H412

2.2. Label elements

H412 Harmful to aquatic life with long lasting effects.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with national regulations.

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. The harmful effects may increase in used oil.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

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.

CLP:

%:	CAS-No.:	EC No.:	REACH Reg. No:	Chemical name:	Hazard classification:	Notes:
90-100	64742-57-0	265-160-8	-	Residual oils (petroleum), hydrotreated; Baseoil-unspecified	Carc. 1B;H350	L
0.1-<5	80939-62-4	279-632-6	-	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	Skin Irrit. 2;H315 Eye Irrit. 2;H319 Aquatic Chronic 2;H411	
0.1-<5	68411-46-1	270-128-1	-	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Repr. 2;H361f Aquatic Chronic 3;H412	

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 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 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 1-2 glasses of water. Keep person under observation. If uncomfortable: Transportation to hospital. Bring along 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 at moderate temperatures in dry, well ventilated area. Store in tightly closed original container.

7.3. Specific end use(s)

Specific use(s): No information available.

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. Thickness: >0.3 mm; Breakthrough time: >240 min. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
Eye protection:	Risk of contact: Wear goggles/face shield.
Skin protection:	Wear apron or protective clothing in case of splashes.
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

Form:	Oily liquid
Colour:	Yellow.
Odour:	Characteristic.
Odour threshold:	Not available.
pH:	Not available.
Melting point / freezing point:	Not available.
Boiling point:	Not available.
Flash point:	>200 °C
Evaporation rate:	Not available.
Flammability (solid, gas):	Not relevant.
Explosive limits	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	~ 0,9
Solubility:	insoluble in water
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature (°C):	Not available.
Decomposition temperature (°C):	Not available.
Viscosity:	150 mm²/s @40 °C
Explosive properties:	Not available.
Oxidising properties:	Not available.

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

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

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: May cause sensitisation by 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.

11.2. Information on other hazards

Endocrine disrupting properties: The product does not contain any substance identified as having endocrine disrupting properties.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: Harmful to aquatic life with long lasting effects.

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

12.6. Endocrine disrupting properties

Endocrine disrupting properties: The product does not contain any substance identified as having endocrine disrupting properties.

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: 13 02 05

Contaminated packaging: Dispose of contaminated packings as residue.

SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/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: Not relevant.

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: UK Statutory Instruments, 2021 No. 904, CONSUMER PROTECTION ENVIRONMENTAL PROTECTION HEALTH AND SAFETY. The REACH etc. (Amendment) Regulations 2021.
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 Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 720), as amended.
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.

SECTION 16: OTHER INFORMATION

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.

1, 2, 3, 4, 6, 7, 8, 9, 11, 12, 13, 14, 15, 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:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H350	May cause cancer.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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.
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