

DESCRIPTION:

Omega 580 heralds "the" important scientific breakthrough into the field of high purity lubrication. It features an additive formulation so unique that it has virtually no competition in its operating capabilities - where only the purest, cleanest lubrication is demanded. Omega 580 sets new standards of performance by which future high-purity lubricants will be measured.

PREMIUM QUALITY INGREDIENTS:

Omega 580 contains such a highly-advanced and sophisticated additive formulation that they were individually tested by the United States Department of Agriculture, who approved each and every additive!

SUPERIOR TO ORDINARY "PURE" GRADE OILS:

Ordinary so-called "pure" oils are known under a variety of names such as "Pure White" or "Pure Mineral" or "Medical" or "Pharmaceutical Grade", etc.

However they lack any effective additive inclusion because ordinary additives are toxic and would render the oil unsuitable for high purity applications. The result is that these ordinary "pure" oils provide extremely limited performance, lack stability, are easily "worn", foam excessively and oxidize rapidly. They require frequent changing and do not offer performance anywhere comparable to that of ordinary oils used in non - high purity applications.

Omega 580, on the other hand, is based on a completely new additives chemistry that is completely non-toxic and gives it extraordinary performance capabilities over ordinary "pure" oils.

USDA-APPROVED ADDITIVES:

Omega 580 contains anti-foam agents, a highly effective oxidation inhibitor and supplementary antiwear agents. In addition, a special bactericide is added to enhance purity and keep the harmful bacteria count extremely low. These additives packages are so advanced that no ordinary pure oil contains them.

Most importantly, they enable Omega 580 to easily outperform ordinary pure oils under service conditions. (Due to the very high concentration of proprietary additives in Omega 580, there may be a very slight degree of sedimentation.

This does not impair the product's performance to any detrimental degree).

USES:

Due to the effective additives package in Omega 580, it will outlast and outperform ordinary "pure" oils in any application demanding pure grade oils. In addition, Omega 580 can be used in compressors, pumps, vacuums, hydraulic systems, chains and conveyors where incidental food contact is encountered.

Omega 580 is recommended for use in food processing plants, abattoir equipment, bottling machinery, hospital equipment, canneries, pharmaceutical manufactories bakeries, cosmetics factories, research laboratories and all types of machinery and equipment that demand the use of pure oil grades.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
		SAE 20
ISO Viscosity Grade	D-2422	68
Appearance	Visual	Off Color/Water White
Density, Kg/L @ 15°C	D-1298	0.884
Viscosity, cSt @ 40°C	D-445	68
Viscosity, cSt @ 100°C	D-445	8.4
Viscosity Index	D-2270	92
Flash Point, COC, °C	D-92	205
Pour Point, °C	D-97	-12
Total Acid Number, mg KOH/g	D-974	0.8
Foaming Characteristics -		
All Sequences, After Settling	D-892	Nil
Copper Strip Corrosion, 3 Hours at 100°C	D-130	1a
Rust-Preventing Characteristics	D-665	Pass
FZG Gear Test, Failure Stage Load	DIN 51354	12
Ash, % Mass		Nil
Zinc, % Mass		Zinc Free

SAFETY DATA SHEET



Product name: Omega 580
Supersedes date: 2019-02-11
Product No.:

Page: 1/11
Last revised date: 2022-12-15
SDS-ID: GB-EN/8.0

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

1.1. Product identifier

Product name: Omega 580
Container size: 5 l, 20 l

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

Application: Lubricant oil

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: 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 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: The product contains a small amount of a substance which is harmful to aquatic organisms.
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

SAFETY DATA SHEET

Product name:	Omega 580	Page:	2/11
Supersedes date:	2019-02-11	Last revised date:	2022-12-15
Product No.:		SDS-ID:	GB-EN/8.0

The product contains: white mineral oil and additives .

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:
60-100	8042-47-5	232-455-8	01-2119487078-27-XXXX	White mineral oil (petroleum) -		

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

<u>Inhalation:</u>	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.
<u>Skin contact:</u>	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.
<u>Eye contact:</u>	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.
<u>Ingestion:</u>	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

<u>Symptoms/effects:</u>	See section 11 for more detailed information on health effects and symptoms.
--------------------------	--

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

<u>Medical attention/treatments:</u>	Treat symptomatically.
--------------------------------------	------------------------

SAFETY DATA SHEET

Product name:	Omega 580	Page:	3/11
Supersedes date:	2019-02-11	Last revised date:	2022-12-15
Product No.:		SDS-ID:	GB-EN/8.0

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.

SAFETY DATA SHEET

Product name:	Omega 580	Page:	4/11
Supersedes date:	2019-02-11	Last revised date:	2022-12-15
Product No.:		SDS-ID:	GB-EN/8.0

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.

SAFETY DATA SHEET

Product name:	Omega 580	Page:	5/11
Supersedes date:	2019-02-11	Last revised date:	2022-12-15
Product No.:		SDS-ID:	GB-EN/8.0

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.
Breakthrough time: > 4h; Thickness: > 0.3 mm
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: Not relevant during normal use.

Hygiene measures: Wash hands after contact. Wash contaminated clothing before reuse.

Environmental Exposure Controls: Not available.

SAFETY DATA SHEET

Product name: Omega 580
Supersedes date: 2019-02-11
Product No.:

Page: 6/11
Last revised date: 2022-12-15
SDS-ID: GB-EN/8.0

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid. Oily.
Odour: Almost odourless.
pH: Not relevant.
Melting point / freezing point: Not determined.
Boiling point: > 230°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: ~ 0,9
Solubility: Immiscible with water.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature (°C): Not available.
Decomposition temperature (°C): Not available.
Viscosity: ~ 68 mm²/s (40 °C)
Explosive properties: Non-explosive
Oxidising properties: Non-oxidising

9.2. Other information

Other data: Not available.

SAFETY DATA SHEET

Product name: Omega 580
Supersedes date: 2019-02-11
Product No.:

Page: 7/11
Last revised date: 2022-12-15
SDS-ID: GB-EN/8.0

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.

SAFETY DATA SHEET

Product name:	Omega 580	Page:	8/11
Supersedes date:	2019-02-11	Last revised date:	2022-12-15
Product No.:		SDS-ID:	GB-EN/8.0

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 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.
Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.

Eye contact: Splashes may irritate.

Ingestion: May irritate and cause malaise.

11.2. Information on other hazards

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

SAFETY DATA SHEET

Product name:	Omega 580	Page:	9/11
Supersedes date:	2019-02-11	Last revised date:	2022-12-15
Product No.:		SDS-ID:	GB-EN/8.0

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: This product does not contain any PBT or vPvB substances. No data available.

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.

SAFETY DATA SHEET

Product name:	Omega 580	Page:	10/11
Supersedes date:	2019-02-11	Last revised date:	2022-12-15
Product No.:		SDS-ID:	GB-EN/8.0

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: -

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.
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.

SAFETY DATA SHEET

Product name:	Omega 580	Page:	11/11
Supersedes date:	2019-02-11	Last revised date:	2022-12-15
Product No.:		SDS-ID:	GB-EN/8.0

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: 1, 2, 3, 4, 8, 9, 10, 11, 12, 13, 14, 15, 16.

Omega Manufacturing Division
13th floor, Unit B, PAX Tower, 609 Eonju-ro,
Gangnam-Gu, Seoul, Korea 06108
Tel : +82-2-2088-3560
Fax : +82-2-513-3567
Web site : www.magnagroup.com

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: CSA= Chemical Safety Assessment.
PBT = Persistent, Bioaccumulative and Toxic.
vPvB = very Persistent and very Bioaccumulative.

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.
