

DESCRIPTION:

OMEGA 26 ThermaSyn FG grease is a white and smooth food grade EP grease formulated with Perfluorinated Polyether (PFPE) base fluid and Polytetrafluoroethylene (PTFE) thickener to be used in extreme-temperature conditions and for applications which require exceptional chemical and solvent resistance while incidental contact with food items is necessary.

SPECIAL FEATURES AND KEY BENEFITS:

OMEGA 26 ThermaSyn FG Grease offers a broad range of operating temperature. Due to its excellent oxidative & thermal stability and high viscosity index, **OMEGA 26** performs equally well from -25°C to 280°C. It is designed for lubricating equipment and machineries that are operating continuously under high temperature and high load conditions. It provides excellent protection against wear and outstanding resistance to water and most aggressive chemicals while maintaining its EP performance under high temperature and high-load operating conditions.



The white and smooth Omega 26 ThermaSyn FG Grease

OMEGA 26 ThermaSyn FG Grease offers the lubrication professionals a durable lubricant that may last forever. As a type of PFPE grease, it will not decompose into carbon residues and soot and its thickener will provide additional lubricity. As a result, it will not potentially damage the equipment or machineries to which it applies even if its base fluid does break down. In addition, volatility and vaporization pressure of PFPE is low.

OMEGA 26 ThermaSyn FG Grease is non-toxic and does not contain mineral hydrocarbon, animal derived materials, nut oils or genetically modified ingredients. It meets and exceeds the NSF requirement for use in food plants applications involving incidental food contact. With its excellent compatibility with plastics and most elastomers, outstanding chemical and physical properties – good resistance to wear, water and chemicals, EP performance, etc,

OMEGA 26 is suitable for use in a wide range of industries to lubricate chains & conveyor systems, O-rings, valves, bearings, slides, and small gears operating in extreme environments.



Omega 26 is available in 500gm compact container

APPLICATIONS:

OMEGA 26's advanced PFPE base fluid and PTFE thickener make it a super grease suitable for use in a wide range of industries.

Suggested applications include (but are not limited to):

For Food & Beverage and Pharmaceutical Industries

- Lubrication of equipment & machineries in food processing & packing, canning & bottling factories.
- Lubrication of bearings and roller bearings of track & chain conveyors going through food baking ovens.

For other industries

- Lubrication of O-rings, plastics & ceramics, couplings, instruments, valves, circuit breakers & railway switch machine bearings.
- Lubrication of plug valves, pressure release valves and pumping equipment handling highly corrosive or reactive liquids.
- And many other maintenance applications up to 280 °C.

DIRECTION FOR USE:

- **OMEGA 26 ThermaSyn FG Grease NLGI#2** should be applied manually or with a suitable applicator e.g. Grease gun.
- **OMEGA 26 ThermaSyn FG Grease NLGI#00** is designed for the centralized grease lubrication systems.
- Thoroughly clean the applied area of the equipment and machineries prior to application.
- Do not mix **OMEGA 26 ThermaSyn FG Grease** with any other lubricant.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT	
		NLGI #2	NLGI #00
Base Fluid:			
Viscosity, cSt @ 20°C	D-445	1525	
Viscosity, cSt @ 40°C	D-445	420	
Viscosity, cSt @ 100°C	D-445	40	
Worked Penetration @ 25°C	D-217	265 - 295	400 – 430
Dropping Point, °C	D-2265	280+	N/A
4-Ball EP Performance			
Weld Load, Kg	D-2596	500	
Load-wear index. Kg		106	
Operating Temperature Range, °C		-25 to 280	
Color		White	

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

1.1. Product identifier

Product name: Omega 26

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

Application: Lubricating grease.

Identified use(s): For professional users only.

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	T: 01484 718674 - F: 01484 400164
	13th Fl., Unit B, PAX Tower	enquiries@sovereign-omega.co.uk
	609 Eonju-ro, Gangnam-Gu	www.sovereign-omega.co.uk
	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 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: Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. The harmful effects may increase in used grease. Greases are generally hazardous to the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

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No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

All substances in the product are either registered 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 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.

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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.
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.
Fire creates: Hydrogen fluoride (HF).

5.3. Advice for firefighters

Protective equipment for fire-fighters: Use air-supplied respirator during fire fighting. Wear full protective clothing.

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 suitable absorbent material. Sweep up and shovel into suitable containers for disposal. 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.

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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.

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

Engineering measures: 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.

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 use suitable respirator. Use respiratory equipment with particle filter, type P2.

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: No special precautions.

Hygiene measures: Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash contaminated clothing 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

<u>Physical state:</u>	Paste.
<u>Colour:</u>	White.
<u>Odour:</u>	Odourless.
<u>pH:</u>	Not relevant.
<u>Melting point / freezing point:</u>	>300°C
<u>Boiling point:</u>	Not available.
<u>Flash point:</u>	Not available.
<u>Evaporation rate:</u>	Not available.
<u>Flammability (solid, gas):</u>	Not available.
<u>Explosive limits</u>	Not relevant.
<u>Vapour pressure:</u>	Not relevant.
<u>Vapour density:</u>	Not relevant.
<u>Relative density:</u>	1,9
<u>Solubility:</u>	Insoluble in water.
<u>Partition coefficient (n-octanol/water):</u>	Not available.
<u>Auto-ignition temperature (°C):</u>	Not available.
<u>Decomposition temperature (°C):</u>	Not available.
<u>Viscosity:</u>	Not applicable.
<u>Explosive properties:</u>	Non-explosive
<u>Oxidising properties:</u>	Not available.
<u>9.2. Other information</u>	
<u>Other data:</u>	VOC content: 0 g/l

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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 Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Incompatible materials: Strong acids. Strong alkalis. Strong oxidizing and reducing substances.

10.6. Hazardous decomposition products

Hazardous decomposition products: None under normal conditions.
In case of fire, toxic and corrosive gases may be formed.
Fire creates: Hydrogen fluoride (HF).

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

<u>Acute Toxicity (Oral):</u>	Based on available data, the classification criteria are not met.
<u>Acute Toxicity (Dermal):</u>	Based on available data, the classification criteria are not met.
<u>Acute Toxicity (Inhalation):</u>	Based on available data, the classification criteria are not met.
<u>Skin Corrosion/Irritation:</u>	Based on available data, the classification criteria are not met.
<u>Serious eye damage/irritation:</u>	Based on available data, the classification criteria are not met.
<u>Respiratory or skin sensitisation:</u>	Based on available data, the classification criteria are not met.
<u>Germ cell mutagenicity:</u>	Based on available data, the classification criteria are not met.
<u>Carcinogenicity:</u>	Based on available data, the classification criteria are not met.
<u>Reproductive Toxicity:</u>	Based on available data, the classification criteria are not met.
<u>STOT - Single exposure:</u>	Based on available data, the classification criteria are not met.
<u>STOT - Repeated exposure:</u>	Based on available data, the classification criteria are not met.
<u>Aspiration hazard:</u>	Based on available data, the classification criteria are not met.
<u>Inhalation:</u>	Inhalation of vapours formed during heating of the product will irritate the respiratory system and provoke coughing.
<u>Skin contact:</u>	Degreasing. Prolonged or frequent contact may cause redness, itching, irritation, eczema, skin cracking and oil acne.
<u>Eye contact:</u>	Direct contact may irritate.
<u>Ingestion:</u>	May irritate and cause malaise.
<u>Specific effects:</u>	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

<u>Endocrine disrupting properties:</u>	The product does not contain any substance identified as having endocrine disrupting properties.
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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: Greases are generally hazardous to the environment.

12.2. Persistence and degradability

Degradability: There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil

Mobility: No data available.
The product is insoluble in water and will sediment in water systems.

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. Avoid release to the environment.

Waste from residues: EWC-code: 12 01 12

Contaminated packaging: Dispose of contaminated packings as residue.

Empty packaging: EWC-code: 15 01 02

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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/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.
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.

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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. The following sections contain revisions or new statements: 1, 31, 4, 5, 6, 7, 8, 9, 10, 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.
VOC = Volatile Organic Compounds.

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

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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www.dhigroup.com.
