



The Ultimate Lubricant

585



Nonfood Compounds
Category Code : H1
Registration Number : 138997

DESCRIPTION:

Omega 585 is an advanced, new, **All-Synthetic** Food Grade Chain & Gear Oil that provides for extended lubrication intervals by virtue of its high performance blend of additives that have been thoroughly inspected and tested for purity. Unlike ordinary chain oils that are used in food and beverage plants, Omega 585 can be left on treated parts and does not have to be flushed and steam-cleaned off daily, since it is officially-approved as a lubricant suitable for use in all types of food & beverages manufacturing equipment. Being fully synthetic, Omega 585 does not contain any mineral oil, polycyclic aromatic hydrocarbons or potentially harmful constituents.

DYNAMIC QUALITIES:

Omega 585 clings tenaciously to applied parts and outperforms virtually all high performance lubricants used for food machinery. It features both a high Flash Point and an ultra low Pour Point and its extended service temperature range is from -30° to 240°C (-22°to 460°F). It therefore provides superior lubrication performance in both high heat equipment - such as bottling, canning and cooking equipment, and also in "reefer" (refrigerated) equipment, cold rooms and ice-making plant equipment.

This in-built versatility, combined with Omega 585's high performance specifications, make it the lubricant of choice for use throughout most food plants, on all types of equipment, including chain drives, conveyor systems, belt pulleys & bearings, guide ways, gear systems, baking oven chains, for drip feed or oil-bath applications as well.



"PURE" PERFORMANCE:

Omega 585, in addition to providing exceptional anti-wear qualities due to its high lubricity, also provides exemplary rust prevention protection on applied parts and equipment. This is an important consideration, especially for food and beverage plant applications due to the high amounts of residual food extracts and acids, vegetable oils, fruit and citric acids plus the high humidity common to such environments.

Furthermore, Omega 585 is highly stable and therefore is not susceptible to adverse reaction or degradation when subjected to contamination with food processing waste, superheated steam, carbonating gases, and strong, natural or artificial seasonings, etc.



TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT	
		ISO VG220	ISO VG460
Appearance	Visual	Off Color/ Water White	Off Color/ Water White
Density, kg/L @ 15°C	D-1298	0.852	0.908
Viscosity, cSt @ 40°C	D-445	220	460
Viscosity, cSt @ 100°C	D-445	23.7	47.7
Viscosity, cSt @ -30°C	Calc.	98,000	N.A.
Viscosity Index	D-2270	135	141
Flash Point, COC, °C(°F)	D-92	210(410)	219(426)
Pour Point °C(°F)	D-97	-36(-33)	-36(-33)
Total Acid Number, mg KOH/g	D-974	0.7	0.7
Carbon Residue, Conradson, %	D-524	0.02	0.02
Foaming Characteristics:-			
All Sequences, After Settling	D-892	Nil	Nil
Rust-Preventing Characteristics	D-665	Nil	Nil
Copper Strip Corrosion, 3 hours @ 100°C	D-130	1b	1b
FZG Gear Test, Failure Stage Load	DIN 51354	12	12
Evaporation Loss, 6.5 hours @ 205°C, % Mass	D-972	4.0	4.0

SAFETY DATA SHEET



Product name: Omega 585
Supersedes date: 2017-09-11
Product No.:

Page: 1/9
Last revised date: 2019-03-13
SDS-ID: GB-EN/6.0

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

1.1. Product identifier

Product name: Omega 585
Container size: 5 l, 20 l

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

Application: Chain and gear oil.

1.3. Details of the supplier of the safety data sheet

Supplier: EU importer:

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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: NHS: 111

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

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.

CLP:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No.:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
60-100	68037-01-4	500-183-1	-	Polyalphaolefin	-	

Notes: L: DMSO < 3% (IP 346)

SAFETY DATA SHEET

Product name:	Omega 585	Page:	2/9
Supersedes date:	2017-09-11	Last revised date:	2019-03-13
Product No.:		SDS-ID:	GB-EN/6.0

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 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.

SAFETY DATA SHEET

Product name:	Omega 585	Page:	3/9
Supersedes date:	2017-09-11	Last revised date:	2019-03-13
Product No.:		SDS-ID:	GB-EN/6.0

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.

SAFETY DATA SHEET

Product name:	Omega 585	Page:	4/9
Supersedes date:	2017-09-11	Last revised date:	2019-03-13
Product No.:		SDS-ID:	GB-EN/6.0

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

SAFETY DATA SHEET

Product name:	Omega 585	Page:	5/9
Supersedes date:	2017-09-11	Last revised date:	2019-03-13
Product No.:		SDS-ID:	GB-EN/6.0

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Appearance:</u>	Clear liquid.
<u>Odour:</u>	Almost odourless.
<u>pH:</u>	Not relevant.
<u>Melting point / freezing point:</u>	Not available.
<u>Boiling point:</u>	Not available.
<u>Flash point:</u>	> 200 °C
<u>Evaporation rate:</u>	Not available.
<u>Flammability (solid, gas):</u>	Not applicable.
<u>Explosive limits</u>	Not available.
<u>Vapour pressure:</u>	Not available.
<u>Vapour density:</u>	Not available.
<u>Relative density:</u>	~0,85
<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>	220 mm ² /s (40 °C)

9.2. Other information

<u>Other data:</u>	Not available.
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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

<u>Reactivity:</u>	Not reactive.
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10.2. Chemical stability

<u>Stability:</u>	Stable under normal temperature conditions.
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10.3. Possibility of hazardous reactions

<u>Hazardous Reactions:</u>	None known.
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10.4. Conditions to avoid

<u>Conditions to avoid</u>	None specific.
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10.5. Incompatible materials

<u>Incompatible materials:</u>	Strong oxidising substances.
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10.6. Hazardous decomposition products

<u>Hazardous decomposition products:</u>	None in particular.
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SAFETY DATA SHEET

Product name:	Omega 585	Page:	6/9
Supersedes date:	2017-09-11	Last revised date:	2019-03-13
Product No.:		SDS-ID:	GB-EN/6.0

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

The harmful effects may increase in used oil.

<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 oil mist or 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, eczema and skin cracking.
<u>Eye contact:</u>	Splashes may irritate.
<u>Ingestion:</u>	May irritate and cause malaise.
<u>Specific effects:</u>	Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

<u>Ecotoxicity:</u>	Oil spills are generally hazardous to the environment.
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12.2. Persistence and degradability

<u>Degradability:</u>	The product is slowly degradable.
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12.3. Bioaccumulative potential

<u>Bioaccumulative potential:</u>	No data available on bioaccumulation.
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12.4. Mobility in soil

<u>Mobility:</u>	No data available.
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12.5. Results of PBT and vPvB assessment

<u>PBT/vPvB:</u>	No data available.
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12.6. Other adverse effects

<u>Other adverse effects:</u>	None known.
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SAFETY DATA SHEET

Product name: Omega 585

Page: 7/9

Supersedes date: 2017-09-11

Last revised date: 2019-03-13

Product No.:

SDS-ID: GB-EN/6.0

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 06

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: -

SAFETY DATA SHEET

Product name:	Omega 585	Page:	8/9
Supersedes date:	2017-09-11	Last revised date:	2019-03-13
Product No.:		SDS-ID:	GB-EN/6.0

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.

SAFETY DATA SHEET

Product name:	Omega 585	Page:	9/9
Supersedes date:	2017-09-11	Last revised date:	2019-03-13
Product No.:		SDS-ID:	GB-EN/6.0

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: 3, 8, 11, 16

1-16.

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The Omega Trade Mark is the property of ITW, Inc., and is used under license by ITW PP & F Korea Limited.

Abbreviations and acronyms PBT = Persistent, Bioaccumulative and Toxic.
used in the safety data sheet: 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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