



Omega
The Ultimate Lubricant

38



Nonfood Compounds
Category Code : H1
Registration Number : 135702

DESCRIPTION:

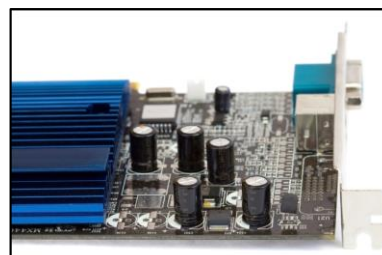
OMEGA 38 Crystal Clear FG Grease is the most advanced multi-purpose synthetic food grade grease, characterized by its crystal clear formation. OMEGA 38 is colorless, satisfying an array of industries with specific needs, e.g. food processing plants, pharmaceuticals, canneries, printing plants, paper mills, electronics plants, etc.

KEY APPLICATIONS:

OMEGA 38 is an ideal multi-purpose, synthetic greasing solution for all types of lubricated bearings commonly found in pharmaceutical

production, laboratories, canneries, beverage bottling plants, food processing plants (e.g. potato chips plants, poultry processing plants, meat processing plants), printing industry, paper mill, palm oil mills, plastics production, tobacco manufacturing, medical & dental equipment production and electronics industries

OMEGA 38 Crystal Clear FG Grease, with its colorless physical qualities, is particularly suitable for applications where incidental grease contact with food products, packaging materials or delicately finished products is possible.



KEY PROPERTIES & BENEFITS:

OMEGA 38 features the following key properties and benefits:

- Versatile food & beverage grade applications for reduction in grease inventory
- Crystal clear
- Non-toxic, non-staining
- Virtually no oil separation
- Excellent “water washout” resistance even with large amount of water
- Superior anti-rust and anti-corrosion protection
- Excellent for low temperature use down to -40°C – ensuring outstanding low temperature pumpability
- High temperature stability protection – Non-melt
- Suitable for centralized pressure systems
- Long grease life & lubrication cycle - adhesive tacky grease that stays in place

- Excellent anti-fling properties
- Complies with Food and Drug Administration (FDA) Federal Regulation 178.3620 and NSF H-1 category for incidental food contact application



TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Base Oil		
Viscosity, cSt@ 40°C	D-445	66
Viscosity, cSt@ 100°C	D-445	9.8
Viscosity Index	D-2270	131
Flash Point, °C	D-92	250
Pour Point, °C	D-97	-50
Dropping Point, °C	D-2265	None
Worked Penetration, 60 Strokes	D-217	276
Timken OK Load, Lbs	D-2509	20
Four Ball Wear, mm	D-2266	1.14
Rust Prevention Rating	D-1743	Pass
Oil Separation, % loss	D-1742	6
NLGI Grade	D-217	#2
Operating Temperature Range, °C	-	- 40 to 200
Texture	Visual	Tacky
Color	Visual	Clear

SAFETY DATA SHEET



Product name: Omega 38
Supersedes date: 2019-02-12
Product No.:

Page: 1/9
Last revised date: 2022-11-18
SDS-ID: GB-EN/7.0

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

1.1. Product identifier

Product name: Omega 38
Container size: 5 kg

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

Application: Food Grade Grease

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
Manufacturer: Omega Manufacturing Division T: 01484 718674 - F: 01484 400164
13th floor, Unit B, PAX Tower, 609 Eonju-ro enquiries@sovereign-omega.co.uk
Gangnam-Gu, Seoul www.sovereign-omega.co.uk
Korea 06108
Tel:+82-2-2088-3560
Fax:+82-2-513-3567

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

Safety data sheet available on request.

2.3. Other hazards

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.

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>
<70	68037-01-4	500-183-1	-	Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	Asp. Tox. 1;H304	

Notes: DMSO-content < 3%

References: The full text for all hazard statements is displayed in section 16.

SAFETY DATA SHEET

Product name:	Omega 38	Page:	2/9
Supersedes date:	2019-02-12	Last revised date:	2022-11-18
Product No.:		SDS-ID:	GB-EN/7.0

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: 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 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.

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.

SAFETY DATA SHEET

Product name:	Omega 38	Page:	3/9
Supersedes date:	2019-02-12	Last revised date:	2022-11-18
Product No.:		SDS-ID:	GB-EN/7.0

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 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.

7.3. Specific end use(s)

Specific use(s): Lubricant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No occupational exposure limit assigned.

DNEL/PNEC: No information available.

8.2. Exposure controls

Engineering measures: Provide adequate ventilation and minimise the risk of inhalation of vapours and oil mist.
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. It is recommended to use respiratory equipment with combination filter, type A2/P3.

Hand protection: For prolonged or repeated skin contact use suitable protective gloves. Nitrile gloves are recommended.
Breakthrough time: > 4 h, Thickness: > 0.4 mm
Other types of gloves can be recommended by the glove supplier.

Eye protection: Risk of contact: Wear goggles/face shield.

Hygiene measures: Wash hands after handling. Change contaminated clothing.

Environmental Exposure Controls: Not available.

SAFETY DATA SHEET

Product name: Omega 38
Supersedes date: 2019-02-12
Product No.:

Page: 4/9
Last revised date: 2022-11-18
SDS-ID: GB-EN/7.0

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Grease.
Colour: Clear.
Odour: Odourless.
Odour threshold: Not available.
pH: Not applicable.
Melting point / freezing point: Not available.
Boiling point: Not available.
Flash point: 264°C
Evaporation rate: Not determined.
Flammability (solid, gas): Not applicable.
Explosive limits Not determined.
Vapour pressure: Not determined.
Vapour density: Not available.
Relative density: 1,01
Solubility: Negligible.
Partition coefficient (n-octanol/water): Not determined.
Auto-ignition temperature (°C): Not determined.
Decomposition temperature (°C): Not determined.
Viscosity: Kinematic viscosity: 46,7 mm²/s (40 °C)
Explosive properties: Not determined.
Oxidising properties: Not determined.

9.2. Other information

Other data: Not available.

SAFETY DATA SHEET

Product name: Omega 38
Supersedes date: 2019-02-12
Product No.:

Page: 5/9
Last revised date: 2022-11-18
SDS-ID: GB-EN/7.0

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 Heating.

10.5. Incompatible materials

Incompatible materials: Strong oxidising substances.

10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon oxides

SAFETY DATA SHEET

Product name:	Omega 38	Page:	6/9
Supersedes date:	2019-02-12	Last revised date:	2022-11-18
Product No.:		SDS-ID:	GB-EN/7.0

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 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 does not contain any substance identified as having endocrine disrupting properties.

SAFETY DATA SHEET

Product name:	Omega 38	Page:	7/9
Supersedes date:	2019-02-12	Last revised date:	2022-11-18
Product No.:		SDS-ID:	GB-EN/7.0

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: Greases are generally hazardous to the environment.

12.2. Persistence and degradability

Degradability: The degradability of the product has not been stated.

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: 12 01 12

SAFETY DATA SHEET

Product name:	Omega 38	Page:	8/9
Supersedes date:	2019-02-12	Last revised date:	2022-11-18
Product No.:		SDS-ID:	GB-EN/7.0

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.
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 38	Page:	9/9
Supersedes date:	2019-02-12	Last revised date:	2022-11-18
Product No.:		SDS-ID:	GB-EN/7.0

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, 3, 8, 9, 11, 12.

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Wording of H-statements:

H304 May be fatal if swallowed and enters airways.

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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