



The Ultimate Lubricant

58



Nonfood Compounds Program Listed
Category Code : H1
Registration Number : 165672

DESCRIPTION:

Omega 58 is a controlled-purity lubricant developed for universal use in food-contact type industries. Its composition is based on a complex type of thickener and an advanced package of additives to offer high performance in purity lubrication.

PURITY STANDARD:

Omega 58 is considered by many maintenance engineers as "the" universal food-contact lubricant. Omega 58 withstands severe water wash (ASTM D1264) and does not alter under extreme temperature fluctuations. Its versatility provides the answer to the many current industrial equipment problems in the food and beverage industries.

SUPPLEMENTS:

Foam Inhibitors	Yes
Anti-oxidants	Yes
Anti-odorants	Yes
Wear Resistors	Yes
Biodegradable Materials	Yes
Demulsifiers	Yes
Dyes	Yes
Extreme-Pressure Properties	Yes
Metal Deactivators	Yes
Minerals	Yes
Phenol-Alpha Trivenalylamine	Yes
Rust Preventatives	Yes

HIGH OPERATING STANDARDS:

Omega 58 is capable of meeting extremely tough operating standards. Special rust and oxidation inhibitors prevent machinery deterioration and ensure long-term production. Acid neutralizers, by way of the unique Omega Megalite supplements, ensure that metal surfaces are provided with ultimate protection, while exhibiting no harmful or toxic effects in contact with food.

APPLICATIONS:

Omega 58 can be used in every industry where lubricant contact with food is likely to cause contamination problems. Omega 58 is applied to Steam Bottle Washing Plants, Hospitals, Veterinary Services, Wineries, Vegetable Sorting and Processing Industries, Fruit Packing Equipment, Restaurants and Hotels, where edible and health material is produced for eventual consumption.

Omega 58 is also ideal for abattoir and poultry handling systems.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT	
		NLGI #2	NLGI #0
Blend Synthetic Oil Base: -		NLGI #2	NLGI #0
Viscosity, cSt @40°C	D-455	100	100
Flash Point, COC, °C (°F) min.	D-92	>200(392)	>200(392)
Pour Point, °C (°F) max.	D-97	<-40(-40)	<-40(-40)
Drop Point, °C (°F)	D-2265	>230(446)	N.A.
Worked Penetration, @77°F, 150 gm. Cone	D-217	265-295	-
Four Ball EP, Weld Point, Kgf	D-2596	500	500
Operating Temperature Range, °C (°F)		-40 to 165 (-40 to 329)	-40 to 165 (-40 to 329)
Color	-	off White	off White

The characteristics given above are typical of current production only and slight batch to batch variations should be expected.



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Anti-odorants	Yes
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Demulsifiers	Yes
Dyes	Yes
Extreme-Pressure Properties	Yes
Metal Deactivators	Yes
Minerals	Yes
Phenol-Alpha Trivenalyamine	Yes
Rust Preventatives	Yes

OMEGA 58 has the USDA H1 rating. All ingredients used in Omega 58 meet the requirements of Section 21 CFR 178.3570 of the U.S. Federal Food, Drug and Cosmetic Act.

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TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT	
		NLGI #2	NLGI #0
Mineral Oil Base: -		NLGI #2	NLGI #0
Viscosity @40°F, SUS	D-455	100	100
Flash Point, COC, °C (°F) min.	D-92	>200(392)	>200(392)
Pour Point, °C (°F) max.	D-97	<-40(-40)	<-40(-40)
Drop Point, °C (°F)	D-566	230(446)	N.A.
Worked Penetration, @77°F, 150 gm. Cone	D-217	265-295	-
Four Ball EP, Weld Point, Kgf	D-2596	500	500
Operating Temperature Range, °C (°F)		-40 to 165 (-40 to 399)	-40 to 165 (-40 to 399)
Color	-	off White	off White

SAFETY DATA SHEET



Product name: Omega 58
Supersedes date: 2019-02-12
Product No.:

Page: 1/11
Last revised date: 2022-10-06
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 58

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

Application: Lubricating 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: 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

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

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

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.

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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.

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.
Larger fires: Use air-supplied respirator during fire fighting. Wear full protective clothing.

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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: Shovel or sweep up. 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 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.
Store away from: Oxidising material.

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

This/these substance(s) is/are subject to an Occupational Exposure Limit and may present an inhalation risk if present as dust or fume. This is not relevant to the current physical state of the product, which is not in a respirable form.

Occupational exposure limits:

<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>As:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
13463-67-7	Titanium dioxide, total inhalable dust	-	10 mg/m3	TWA	-	EH40
13463-67-7	Titanium dioxide, respirable dust	-	4 mg/m3	TWA	-	EH40

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.

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>	Grease.
<u>Colour:</u>	White.
<u>Odour:</u>	Odourless.
<u>Odour threshold:</u>	Not relevant.
<u>pH:</u>	Not relevant.
<u>Melting point / freezing point:</u>	Not determined.
<u>Boiling point:</u>	Not available.
<u>Flash point:</u>	Not applicable.
<u>Evaporation rate:</u>	Not available.
<u>Flammability (solid, gas):</u>	Not available.
<u>Explosive limits</u>	Not relevant.
<u>Vapour pressure:</u>	0.85 @ 25°C
<u>Vapour density:</u>	Not relevant.
<u>Relative density:</u>	Not available.
<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>	Non-oxidising

9.2. Other information

<u>Other data:</u>	Not available.
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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 None known.

10.5. Incompatible materials

Incompatible materials: Avoid contact with: Oxidising materials.

10.6. Hazardous decomposition products

Hazardous decomposition products: None under normal conditions.

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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.

Eye contact: Direct contact may irritate.

Ingestion: May irritate and cause malaise.

Specific effects: 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.

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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.

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 from residues: EWC-code: 13 02 08

Contaminated packaging: Dispose of contaminated packings as residue.

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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.

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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.
Statutory Instruments 2008 No. 2852 - The REACH Enforcement Regulations 2008.
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.
European Union (Withdrawal) Act 2018, 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, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

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Abbreviations and acronyms CSA= Chemical Safety Assessment.
used in the safety data sheet: 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.
