



The Ultimate Lubricant

95

DESCRIPTION:

New formulation Omega 95 is the latest generation of Omega's premier severe saltwater-and corrosive atmosphere-resistant grease. It is characterized by an extremely high load carrying capability, superior resistance to water, unparalleled mechanical stability, enhanced resistance to oxidation and corrosion and exemplary performance in high temperature applications. Omega 95 will continue to lubricate under complete immersion or high water washout applications that no ordinary grease can endure.

ENHANCED CAPABILITIES:

New and improved Omega 95 now provides still higher water wash resistance and immersed lubrication performance from its high density characteristics. Not only is improved Omega 95 extremely capable at higher temperatures, it will also perform superbly even at lower temperatures as low as -23°C (or -10°F) or near-arctic conditions!!! Omega 95 also contains absolutely no heavy metals, harmful or environmentally undesirable additives which makes this lubricant suitable for the lubrication of reservoir sluice gates and mechanisms, for freshwater lake and canal equipment, etc.

Due to the enhanced purity performance with this all-new Omega 95 formulation, the traditional applications of lubricating shipboard equipment and dockside equipment -including dry-dock and ship repair/building equipment can be expanded to include steam cleaning equipment used in bottling plants, abattoirs, etc., where wet conditions are combined with high heat and pressurized water wash.

Omega 95 works perfectly in anti-friction bearings, both low and high speed ordinary bearings, for lubricating conveyors and for a large variety of construction, irrigation and agricultural equipment lubrication, where wet conditions are often encountered.

Due to Omega 95's improved stay-put qualities, it will readily withstand the vigorous and often difficult shock loading and high heat encountered in mining where underground water and slush tends to inundate and saturate the equipment. In addition to being the best grease for protection of waterside equipment, Omega 95 now provides its exemplary corrosion resistance to a wider variety of applications.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Base Oil		
Viscosity, cSt at 40°C	D-445	221
Flash Point, °C	D-92	249
Pour Point, °C	D-97	-9
Dropping Point, °C	D-2265	318
Worked Penetration	D-217	
60 strokes		282
Worked 100,000 strokes, % change		2.3
Worked 10,000 strokes, with 50/50 water, % change		8.0
Timken OK Load, Lbs	D-2509	60
Four Ball, EP		
Weld Point, Kg	D-2596	500
Load Wear Index (LWI)	D-2596	65
Four Ball Wear, mm	D-2266	0.39
Rust Prevention Rating	D-1743	1, 1, 1
Water Washout @ 175°F (79.4°C), %	D-1264	1.0
Salt Fog Corrosion, 1 mil d.f.t., hours	B-117	>300
Resistance to Water Spray, % retained	D-4049	80
Wheel Bearing Leakage, gm	D-1263	0.5
Roll Stability, % Change	D-1831	5
Oil Separation, Wt. %	D-1742	0.2
NLGI Grade	-	#2
Operating Temperature Range, °C	-	-23 to 200
Color	-	Tan

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

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

1.1. Product identifier

Product name: Omega 95 - Super Corrosion-Control Grease NLGI #2
UFI: 6480-E086-Y00C-WPV4
Container size: Not available.

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

Application: Grease.

1.3. Details of the supplier of the safety data sheet

<u>Supplier:</u>	GB importer:	<u>Distributed by:</u>	Trust Engineering Company
<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		9 Abdel Hamid El Deeb Street Alexandria, 21613 Egypt T: +(20)3 5822779 T: +(20)10 1223554 5 Ahmed Shaker Street Fourth Zone Nasr City, 11586 Egypt T: +(20)2 26909965 T: +(20)10 1223553 info@trustengineering-eg.com www.trustengineering-eg.com

1.4. Emergency telephone number

Emergency telephone: NHS: 111

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP: Eye Irrit. 2;H319

2.2. Label elements



Warning

H319 Causes serious eye irritation.

P280 Wear eye protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container as hazardous waste.
Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts and Sulfonic acids, petroleum, calcium salts. May produce an allergic reaction.

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.

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.

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CLP:

%:	CAS-No.:	EC No.:	REACH Reg. No.:	Chemical name:	Hazard classification:	Notes:
1 - <5	68584-23-6	271-529-4	01-2119492627-25-0000 -XXXX	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Skin Sens. 1B;H317	SCL
1 - <5	61789-86-4	263-093-9	01-2119488992-18-0000 -XXXX	Sulfonic acids, petroleum, calcium salts	Skin Sens. 1B;H317	SCL
1 - <3	26264-06-2	247-557-8	01-2120122335-68-0000 -XXXX	Calcium dodecylbenzenesulphonate	Acute Tox. 4;H302 Skin Irrit. 2;H315 Eye Dam. 1;H318 Aquatic Chronic 4;H413	

Chemical name:

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts

Sulfonic acids, petroleum, calcium salts

Calcium dodecylbenzenesulphonate

Notes:

SCL

Skin Sens. 1B;H317: C ≥ 10%

Skin Sens. 1B;H317: C ≥ 10%

SCL = Specific Concentration Limit.

References:

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

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:

Do not rub eye.
Immediately rinse with water. Make sure to remove any contact lenses from the eyes before rinsing.
Continue to rinse for at least 15 minutes and get medical attention.

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: 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.

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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: Risk of contact: Wear protective gloves. Nitrile gloves are recommended. Breakthrough time: > 4h; Thickness: > 0.3 mm
Other types of gloves can be recommended by the glove supplier.

Eye protection: Wear goggles/face shield.

Skin protection: Wear apron or protective clothing in case of contact.

Hygiene measures: Wash hands after handling.

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>	Tan.
<u>Odour:</u>	Mild. Hydrocarbon.
<u>pH:</u>	not relevant
<u>Melting point / freezing point:</u>	not available
<u>Boiling point:</u>	not available
<u>Flash point:</u>	> 180 °C
<u>Evaporation rate:</u>	Not relevant.
<u>Flammability (solid, gas):</u>	Not relevant.
<u>Explosive limits</u>	not available
<u>Vapour pressure:</u>	<0.0008 hPa @ 20 °C
<u>Vapour density:</u>	Not available.
<u>Relative density:</u>	0.95 - 1.05 (25 °C)
<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
<u>9.2. Other information</u>	
<u>Other data:</u>	Not relevant.

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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 Water, moisture.

10.5. Incompatible materials

Incompatible materials: Strong oxidising substances.

10.6. Hazardous decomposition products

Hazardous decomposition products: None in particular.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

The harmful effects may increase in used grease.

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: Causes serious eye irritation.

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 repeated contact with skin may cause redness, itching, irritation and eczema/chapping.
May cause sensitisation by skin contact.

Eye contact: Risk of serious damage to eyes.

Ingestion: May irritate and cause malaise.

Specific effects: Prolonged or repeated contact with used grease may cause serious skin diseases, such as dermatitis. May cause allergic skin disorders in sensitive individuals.

Toxicological data: ATE (Oral): >2000 mg/kg (calculated)
ATE (Dermal): >2000 mg/kg (calculated)

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: The product contains a substance which may cause long term adverse effects in the aquatic environment.
Calcium dodecylbenzenesulphonate
LC50 (Fish, Cyprinus carpio (48 h): 2.8 - 4.2 mg/l
EC50 (Daphnia magna, 48 hours): 2.9 mg/l
EC50 (Algae, Scenedesmus capricornutum, 96 H): 29 mg/l
NOEC (Water flea, 21 days): 1.18 mg/l

Greases are generally hazardous to the environment.

12.2. Persistence and degradability

Degradability: No data available.

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 spread on the water surface.

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: 20 01 26

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: -

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk: -

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.
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.
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: Not relevant.

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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.

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, 7, 8, 9, 10, 11, 12, 13, 15, 16.

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Abbreviations and acronyms

used in the safety data sheet:

ATE = Acute Toxicity Estimate.
CSA= Chemical Safety Assessment.
EC50 = Effective Concentration 50%.
LC50 = Lethal Concentration 50%.
NOEC = No Observed Effect Concentration.
PBT = Persistent, Bioaccumulative and Toxic.
SCL = Specific Concentration Limit.
vPvB = very Persistent and very Bioaccumulative.

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

Wording of H-statements:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H413 May cause long lasting harmful effects to aquatic life.

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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