

Omega 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		
@ 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

SAFETY DATA SHEET



Product name: Omega 95
Revision Date:
Product No.:

Page: 1/8
Print date: 2012-03-09
SDS-ID: GB-EN/1.0

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

1.1. Product identifier

Product name: Omega 95
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

Supplier: EU importer: Sovereign Lubricants (UK) Ltd, Crowtrees Lane,
Rastrick, West Yorkshire, HD6 3LZ
T: 01484 718674 - F: 01484 400164
enquiries@sovereign-omega.co.uk
www.sovereign-omega.co.uk

Manufacturer Omega Manufacturing Division
1801, Guardian House
32 Oi Kwan Road
Wanchai, Hong Kong
Tel:(852) 2577 5187
Fax:(852) 2577 3190
magna@magnagroup.com
www.magnagroup.com

Responsible for safety data sheet authoring: SDS_info@dhigroup.com

1.4. Emergency telephone number

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The product is not classified.

Human health: Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. The harmful effects may increase in used grease.

Environment: The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment. Greases are generally hazardous to the environment.

2.2. Label elements

Based on information from the manufacturer regarding the chemical composition, the product is not liable to classification, but the following labelling must be applied:

Safety data sheet available for professional user on request.

2.3. Other hazards

PBT/vPvB: Not relevant.

SAFETY DATA SHEET

Product name:	Omega 95	Page:	2/8
Revision Date:		Print date:	2012-03-09
Product No.:		SDS-ID:	GB-EN/1.0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The product contains: mineral oil and additives .

67/548/EEC:

<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>
1-5	61789-86-4	263-093-9	-	Sulfonic acids, petroleum, calcium salts	Xi;R36	
1-5	26264-06-2	247-557-8	-	Calcium dodecylbenzenesulphonate	Xi;R38-41	
1-5	68584-23-6	271-529-4	-	Benzenesulfonic acid, C10-16 -alkyl derivs., calcium salts	Xi;R36	
1-5	36878-20-3	253-249-4	-	Bis(nonylphenyl)amine	R53	

GHS/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>
1-5	61789-86-4	263-093-9	-	Sulfonic acids, petroleum, calcium salts	Eye Irrit. 2;H319	
1-5	26264-06-2	247-557-8	-	Calcium dodecylbenzenesulphonate	Skin Irrit. 2;H315 Eye Dam. 1;H318	
1-5	68584-23-6	271-529-4	-	Benzenesulfonic acid, C10-16 -alkyl derivs., calcium salts	Eye Irrit. 2;H319	
1-5	36878-20-3	253-249-4	-	Bis(nonylphenyl)amine	Aquatic Chronic 4;H413	

References: The full text for all R-phrases and hazard statements are displayed in section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

<u>Inhalation:</u>	Move into fresh air and keep at rest. In case of persistent throat irritation or coughing: Seek medical attention and bring these instructions.
<u>Skin contact:</u>	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.
<u>Eye contact:</u>	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.
<u>Ingestion:</u>	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: Not known.

SAFETY DATA SHEET

Product name:	Omega 95	Page:	3/8
Revision Date:		Print date:	2012-03-09
Product No.:		SDS-ID:	GB-EN/1.0

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.

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): Not relevant.

SAFETY DATA SHEET

Product name:	Omega 95	Page:	4/8
Revision Date:		Print date:	2012-03-09
Product No.:		SDS-ID:	GB-EN/1.0

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. When working with heated grease, mechanical ventilation may be required. 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 use suitable respirator. Use respiratory equipment with particle filter, type P2.
<u>Hand protection:</u>	Risk of contact: Wear protective gloves. Nitrile gloves are recommended. 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 handling.
<u>Environmental Exposure Controls:</u>	Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Appearance:</u>	Paste.
<u>Colour:</u>	Tan.
<u>Odour:</u>	Mild. Hydrocarbon.
<u>pH:</u>	not relevant
<u>Melting point:</u>	not available
<u>Boiling point:</u>	not available
<u>Flash point:</u>	> 180 °C
<u>Explosion limits:</u>	not available
<u>Vapour pressure:</u>	not available
<u>Relative density:</u>	not available
<u>Solubility:</u>	insoluble in water
<u>Decomposition temperature (°C):</u>	not available

9.2. Other information

<u>Other data:</u>	Not relevant.
--------------------	---------------

SAFETY DATA SHEET

Product name:	Omega 95	Page:	5/8
Revision Date:		Print date:	2012-03-09
Product No.:		SDS-ID:	GB-EN/1.0

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: None known.

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/materials to avoid: Water, moisture.

10.5. Incompatible materials

Incompatible materials: Strong oxidising substances.

10.6. Hazardous decomposition products

Hazardous decomposition products: None in particular.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

The harmful effects may increase in used grease.

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.

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.

SAFETY DATA SHEET

Product name: Omega 95

Page: 6/8

Revision Date:

Print date: 2012-03-09

Product No.:

SDS-ID: GB-EN/1.0

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: The product contains a substance which may cause long term adverse effects in the aquatic environment. Greases are generally hazardous to the environment.

12.2. Persistence and degradability

Degradability: The product is expected to be slowly biodegradable.

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: Not relevant.

12.6. 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

SAFETY DATA SHEET

Product name:	Omega 95	Page:	7/8
Revision Date:		Print date:	2012-03-09
Product No.:		SDS-ID:	GB-EN/1.0

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: None known.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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: 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 (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

15.2. Chemical Safety Assessment

CSA status: Not relevant.

SAFETY DATA SHEET

Product name:	Omega 95	Page:	8/8
Revision Date:		Print date:	2012-03-09
Product No.:		SDS-ID:	GB-EN/1.0

SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

Omega Manufacturing Division
1801, Guardian House, 32 Oi Kwan Road
Wanchai, Hong Kong
Tel : (852) 2577 5187
Fax : (852) 2577 3190
Web site : www.magnagroup.com

The Omega Trade Mark is the property of ITW, Inc., and is used under licence by Magna Industrial Co. Limited.

Wording of

R-phrases/H-statements:

R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R53	May cause long-term adverse effects in the aquatic environment.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
www.dhigroup.com.
