



The Ultimate Lubricant

64

DESCRIPTION:

Omega 64 is a scientifically-developed, ultra-tacky, heavy-duty and tenacious lubricant. Its aim is the ultimate in lubrication protection for track roller, pin and bushing systems.

OXIDATION RESISTANCE:

Omega 64 has special oxidation inhibitive qualities that resist oxidation. Ordinary greases used for track roller systems easily squeeze out, leaving the vital metal surfaces exposed to oxidation. Oxidation is the forerunner of cancerous corrosion and its resultant downtime.

BUILT TO RESIST CONTAMINATION:

Track roller systems are invariably used in areas where abnormal dust, dirt, grit and similar conditions prevail. Ordinary greases adopted for track roller systems readily absorb dust, dirt and grit. This rapidly forms an abrasive mixture that causes premature wear. Omega 64 however, has built-in 'self healing qualities' that actually form an outer shell after application. This keeps dust, dirt, grit and other contaminants out.

EXTREME PRESSURE:

Omega 64 is loaded with extreme-pressure supplements that resist-

Compression	Impact	Loading
Velocity	Shock	Force
Pressure	Squeeze Out	

RESISTS SQUEEZE-OUT:

Omega 64 stays in position after application. Ordinary greases form large periphery deposits that absorb contaminants and eventually break loose and damage the system. Omega 64 retains its NLGI 00 texture and will not squeeze out. It forms an even, balanced lubricant layer of 'bearings' between frictional faces.

TEMPERATURE-STABLE:

Omega 64 retains its texture at both high and low temperatures. At high temperature, ordinary greases thin out, become liquid and drip off the surfaces intended for lubrication. At cold temperatures, most greases become hard and solidify making lubrication impossible and, during the solidifying process, cause extreme drag and thereby waste energy.

ESPECIALLY BUILT FOR TRACK ROLLER SYSTEMS:

Omega 64 has built-in elasticity that provides the stretchability necessary for track roller system lubrication. It contains lubrimyostic elastomers that form millions of long-strand films. These fine films perform the essential job of stress curve lubrication during track roller link-up chain movement.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Mineral Oil Base: -		
Viscosity @100°F, SUS	D-88	3000
Flash point, COC, °C (°F)	D-92	185(365)
Dropping Point, °C (°F)	D-566	Not Applicable
Worked Penetration @25°C	D-217	400-430
Rust Prevention	D-1743	#1 rating
Oxidation Stability, P.S.I. drop in 100 hrs	D-942	5 max.
Water Washout, % loss after 2 hrs. @175°F	D-1264	4
Extreme-Pressure Properties	D-2596	#1 rating
Oil Separation, %	D-1742	Nil
Evaporation loss, % loss, 500 hrs.	IP183/63T	0.07
NLGI Grade	-	#00
Operating Temperature Range, °C (°F)	-	-7 to 149 (20 to 300)
Color	-	Grey

SAFETY DATA SHEET



Product name: Omega 64
Supersedes date: 2016-04-15
Product No.:

Page: 1/9
Last revised date: 2019-08-19
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 64
Container size: 5 kg, 15 kg

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

Application: Lubricating grease. / Universal grease.

1.3. Details of the supplier of the safety data sheet

Supplier: EU importer:

.
.

Manufacturer: Omega Manufacturing Division
13th floor, Unit B, PAX Tower, 609 Eonju-ro, Gangnam-Gu, Seoul, Korea 06108
(The Omega Trade Mark is the property of ITW Inc. and is used under license by ITW PP & F Korea Limited)

Further information can be obtained from: magna@magna.com

1.4. Emergency telephone number

Emergency telephone: Call a Poison Center, emergency number or doctor/physician.

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, but the following labelling must be applied:

EUH210 Safety data sheet available on request.

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

The product contains: mineral oil , fillers and additives.

All substances in the product are either registered or exempt from registration under REACH. Only classified substances above threshold limits are shown.

SAFETY DATA SHEET

Product name:	Omega 64	Page:	2/9
Supersedes date:	2016-04-15	Last revised date:	2019-08-19
Product No.:		SDS-ID:	GB-EN/7.0

CLP:

%:	CAS-No.:	EC No.:	REACH Reg. No.:	Chemical name:	Hazard classification:	Notes:
60-100	64742-62-7	265-166-0	01-2119480472-38-0033	Residual oils (petroleum), solvent-dewaxed; Baseoil-unspecified	-	L
5-<10	7782-42-5	231-955-3	-	Graphite	Eye Irrit. 2;H319 STOT SE 3;H335 Skin Irrit. 2;H315	

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

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: 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 64	Page:	3/9
Supersedes date:	2016-04-15	Last revised date:	2019-08-19
Product No.:		SDS-ID:	GB-EN/7.0

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): Lubricant.

SAFETY DATA SHEET

Product name: Omega 64 Page: 4/9
Supersedes date: 2016-04-15 Last revised date: 2019-08-19
Product No.: SDS-ID: GB-EN/7.0

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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>
7782-42-5	Graphite, respirable dust	-	4 mg/m3	TWA	-	EH40
7782-42-5	Graphite, inhalable dust	-	10 mg/m3	TWA	-	EH40

Notes: EH40: EH40/2005.

8.2. Exposure controls

Engineering measures:

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours and oil mist. 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. 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:

Wear apron or protective clothing in case of contact.

Hygiene measures:

Wash hands after contact. Change contaminated clothing.

Environmental Exposure Controls:

Not available.

SAFETY DATA SHEET

Product name:	Omega 64	Page:	5/9
Supersedes date:	2016-04-15	Last revised date:	2019-08-19
Product No.:		SDS-ID:	GB-EN/7.0

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Appearance:</u>	Grease.
<u>Colour:</u>	Grey.
<u>Odour:</u>	Almost odourless.
<u>Odour threshold:</u>	Not available.
<u>pH:</u>	Not applicable.
<u>Melting point / freezing point:</u>	> 180°C
<u>Boiling point:</u>	Not available.
<u>Flash point:</u>	> 240°C
<u>Evaporation rate:</u>	Not available.
<u>Flammability (solid, gas):</u>	Not available.
<u>Explosive limits</u>	Not available.
<u>Vapour pressure:</u>	Not available.
<u>Vapour density:</u>	Not available.
<u>Relative density:</u>	~ 0,9
<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>	Not available.
<u>Oxidising properties:</u>	Not available.

9.2. Other information

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

SAFETY DATA SHEET

Product name:	Omega 64	Page:	6/9
Supersedes date:	2016-04-15	Last revised date:	2019-08-19
Product No.:		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 None specific.

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

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 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. The harmful effects may increase in used grease.

SAFETY DATA SHEET

Product name:	Omega 64	Page:	7/9
Supersedes date:	2016-04-15	Last revised date:	2019-08-19
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 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: This product does not contain any PBT or vPvB substances.

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: 12 01 12

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.

SAFETY DATA SHEET

Product name:	Omega 64	Page:	8/9
Supersedes date:	2016-04-15	Last revised date:	2019-08-19
Product No.:		SDS-ID:	GB-EN/7.0

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.
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.
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 chemical safety assessment has been carried out.

SAFETY DATA SHEET

Product name:	Omega 64	Page:	9/9
Supersedes date:	2016-04-15	Last revised date:	2019-08-19
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: 2, 3, 8, 15, 16.

Omega Manufacturing Division
13th floor, Unit B, PAX Tower, 609 Eonju-ro,
Gangnam-Gu, Seoul, Korea 06108
Tel : +82-2-2088-3560
Fax : +82-2-513-3567
Web site : www.magnagroup.com

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

Abbreviations and acronyms

used in the safety data sheet: PBT = Persistent, Bioaccumulative and Toxic.
vPvB = very Persistent and very Bioaccumulative.

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

Wording of H-statements:

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

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.
