



The Ultimate Lubricant

65

DESCRIPTION:

Omega 65 is a 'premier' lubricant especially designed for ultra long-term preservation of today's chains, cables and wire ropes.

Omega 65 contains a precise percentage of high-contrast fluorinated polymers in the form of methacrylates. These special supplements provide critical and essential boundary formation that stops creep or squeeze-out. It has an avid affinity for metal. This attraction provides the interfacial tenacity to prevent squeeze-out at even the most critical CDAP (Change Direction Apex Point). It is a well-known fact that 90% of all manufactured lubricants used on chains, cables and wire ropes squeeze out during the first hours of service!

PROTECTION:

Omega 65 provides exceptional long-term protection for the following: -

| | | |
|------------------------|--------------------------------|-------------------------|
| Anchor Chains | Disc Couplings | Multiple Strand Ropes |
| Ball Mills | Elevators | Elevators |
| Block & Jaw Coupling | Enclosed Malleable Iron chains | Hoist Chains |
| Sling Chains | Closed End Chains | Transmission Chains |
| Conveyor Chains | Marine Equipment | 6 x 7 Strand Ropes |
| Crane Cables | Mine Head equipment | 6 x 19 Warrington Ropes |
| Detachable Link Chains | Mobile Lifts | |

TENACITY:

Omega 65's protection extends to both reduced motion and high-speed equipment because Omega 65 has multiple surface tenacity that will not fling off. Ordinary lubricants -often supplied as chain, wire rope or cable lubricants -rapidly lose strength and decrease equipment flexibility. This promotes surface breakdown and rapid failure. Even the initial lubrication which is incorporated during manufacture seeps out or dries up. This is often caused by low grade or inadequate film strength, lack of correct adhesiveness, dropping out (which also leaves the equipment prone to corrosion and oxidation) and sensitivity to climatic alterations.

Omega 65 meets and exceeds the requirements of all chain, wire rope and cable manufacturers including 'Oil-Rite Corp'.

HIGH PURITY:

Omega 65 is a high-purity lubricant that provides a new dimension to penetration quality requirements. This special aspect ensures that cables, wire ropes and chains become completely saturated. This promotes a state of equipment self-lubrication!

RELIABILITY:

Ordinary lubricants rapidly evaporate, even in mild climatic conditions. This leaves equipment susceptible to oxidation, corrosion, rust, rigidity, and eventually failure. Since equipment life depends on the long-term reliability of chains, cables and wire ropes, their failure can cause untold damage.

TYPICAL DATA:

| TEST | ASTM TEST METHOD | TEST RESULT |
|--|------------------|----------------------------|
| Mineral Oil Base: - | | |
| Viscosity @100°F, SUS | D-88 | 350 |
| Flash Point, COC, °C (°F) | D-92 | 157(315) |
| Dropping Point, °C (°F) | D-566 | Not Applicable |
| Worked Penetration @77°F, 150 gm cone | D-217 | 400-430 |
| Rust Prevention | D-1743 | #1 rating |
| Oxidation Stability, lbs, loss in 100 hrs. | D-942 | 5.0 max. |
| Free Alkalinity, Ca (OH) ₂ %Wt. | - | 0.5 min. |
| Graphite Content, %wt. | - | 1.0 |
| Tenacity tension, Dyn/cm. | - | 25 |
| NLGI Grade | - | #00 |
| Operating Temperature Range, °C (°F) | - | -29 to 149 (-20 to 300) |
| Color | - | Dark Brown |

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

1.1. Product identifier

Product name: Omega 65
Container size: 5 kg, 15 kg & 55 kg

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

Application: Lubricating grease. / Lubricant for chains, wires and cables.

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

Further information can be obtained from: magna@magnagroup.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: 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.
Contains 2,5-Bis(octyldithio)-1,3,4-thiadiazole. 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

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The product contains: mineral oil and additives.

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

CLP:

| %: | CAS-No.: | EC No.: | REACH Reg. No.: | Chemical name: | Hazard classification: | Notes: |
|-------------|------------|-----------|-----------------|---|---|--------|
| 10 - <20 | 64742-52-5 | 265-155-0 | - | Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil- unspecified | Carc. 1B;H350 | L |
| 0,1 - <1 | 13539-13-4 | 236-912-2 | - | 2,5-Bis(octylidithio)-1,3,4- thiadiazole | Acute Tox. 4;H332 Skin Irrit. 2;H315 Eye Irrit. 2;H319 Skin Sens. 1;H317 | |

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

| | |
|----------------------|---|
| <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 at least 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 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

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.

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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.

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 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. Use respiratory equipment with particle filter, type P2.

Hand protection: Risk of contact: Wear protective gloves. Nitrile gloves are recommended. Thickness: > 0,3 mm; Breakthrough time: > 480min. 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: 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> | Dark brown. |
| <u>Odour:</u> | Almost odourless. |
| <u>Odour threshold:</u> | Not available. |
| <u>pH:</u> | Not available. |
| <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 applicable. |
| <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 available. |
| <u>Explosive properties:</u> | Not available. |
| <u>Oxidising properties:</u> | Not available. |

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

10.4. Conditions to avoid

Conditions to avoid Heat, sparks, flames.

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

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: May cause allergic skin disorders in sensitive individuals. Degreasing. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Prolonged or repeated contact with used grease may cause serious skin diseases, such as dermatitis.

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: 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. 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.

Empty packaging: The packaging should be collected for reuse.

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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.

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.
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.
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, 3, 4, 7, 8, 9, 11, 12, 14, 15, 16.

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Abbreviations and acronyms

used in the safety data sheet: CSA= Chemical Safety Assessment.
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. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H350 | May cause cancer. |

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.
