

71

## **DESCRIPTION:**

Omega 71 is a stable drop point grease with a resistance to temperatures of up to 260°C (500°F)! Ordinary greases have unstable drop points because they conform to the "soap" type greases, which deteriorate rapidly under high heat conditions. Omega 71 however, contains solid and highly-micronized supplements that are impossible to melt-providing a "carrier" for the mineral oil. As carrier, they ensure that Omega 71 remains stable up to -and including -the drop point of beyond 260°C (500°F). Ordinary greases cannot cope with temperature changes and begin to melt at a temperature well below 260°C (500°F).

## LUBRICITY:

Omega 71 is much more than just a temperature-resistant lubricant. It also provides exceptional lubricity that retards wear and prolongs equipment life.

## SUPPLEMENT PROTECTION:

Omega 71 contains a solid supplement. This consists of montmorillonite particles which form a bearing between metal surfaces that will not break down -even under extreme temperatures! Ordinary greases cannot provide this "barrier" and subsequently, the grease rapidly disintegrates.

### **TYPICAL DATA:**

TEST	ASTM TEST METHOD	TEST RESULT
Mineral Oil Base: -		
Viscosity @210 °F(98.8°C), SUS	D-88	80
Flash Point, COC, °C	D-92	249
Pour Point, °C	D-97	-23
Dropping Point, °C	D-566	260+
Worked Penetration @ 77°F, 150-gm cone	D-217	265-295
Timken OK Load, lbs. min.	D-2509	40
Bearing Stability	D-1741	Excellent
Copper Corrosion Test	D-1402	Excellent
Humidity Corrosion @ 18°C, %	D-5319	0.01
Evaporation Loss	D-972	Minimal
Oil Separation, @ 100°C, 30hrs, %	D-1742	3.1
NLGI Grade	-	#2
Operating Temperature Range, °C	-	-20 to 204
Color	-	Golden Bronze



## THERMO HYDRODYNAMIC LUBRICATION:

Omega 71 provides maximum protection for a wide variety of equipment. This is made possible by the development of a hydrodynamic concept in Omega 71, whereby a "wedge" is formed between areas subjected to constant wear. This wedge resists not only the evaporative tendency of the heat cycle but also the immense friction barrier caused by heat and pressure formations. The ability of Omega 71 to suppress this natural force of lubricant migration is an outstanding feature unique to the Omega family.

Ordinary grease being utilized for high temperature applications rapidly break down and leave the wear areas unprotected. This promotes metal-to-metal contact which, in turn, causes wear -and shortly thereafter, complete and total parts seizure. Additionally, ordinary greases are inconsistent and need constant replenishment. Their unreliable tendency to become fluid and fling off has hazardous effects on the equipment and its maintenance.





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

#### 1.1. Product identifier

Product name: Omega 71

Container size: 5 kg, 15 kg & 55 kg

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

<u>Application:</u> Lubricating grease.

### 1.3. Details of the supplier of the safety data sheet

Supplier: GB importer: Sovereign Lubricants (UK) Ltd, Crowtrees Lane,

Manufacturer: ITW PP & F Korea Limited Rastrick, West Yorkshire, HD6 3LZ T: 01484 718674 - F: 01484 400164

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Further information can be

magna@magnagroup.com

obtained from:

### 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 and labelling.

#### 2.3. Other hazards

<u>PBT/vPvB:</u> 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 (DMSO < 3% (IP 346)) and additives.

All substances in the product are either registered or exempt from registration under REACH. No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

#### **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.

Immediately flush with plenty of water for at least 15 minutes. Remove any Eye contact:

contact lenses and open eyelids widely. If irritation persists: Seek medical

attention and bring along these instructions.

Immediately rinse mouth and drink 1-2 glasses of water. Keep person under Ingestion:

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.

## **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

fighters:

Protective equipment for fire- Selection of respiratory protection for fire fighting: follow the general fire

precautions indicated in the workplace.

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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

<u>Environmental</u> Do not discharge into drains, water courses or onto the ground.

precautions:

## 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.

<u>Technical measures:</u> Work practice should minimise contact.

<u>Technical precautions:</u> When working with heated grease, mechanical ventilation may be required.

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures for safe No special precautions.

storage:

<u>Storage conditions:</u> Store in tightly closed original container.

## 7.3. Specific end use(s)

Specific use(s): No information available.

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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.

<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.

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:>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: Wear apron or protective clothing in case of contact.

<u>Hygiene measures:</u> 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

Physical state: Grease. Colour: Brown.

Odour: Almost odourless. Odour threshold: Not available. pH: Not available.

> 250 °C Melting point / freezing point:

**Boiling point:** Not available. > 250 °C Flash point:

**Evaporation rate:** Not available. Flammability (solid, gas): Not available. Not available. **Explosive limits** Not available. Vapour pressure: Not available. Vapour density:

Relative density: ~0.9

Insoluble in water. Solubility: Not available.

Partition coefficient (n-

octanol/water):

Not available.

Auto-ignition temperature (°C):

**Decomposition** Not available.

temperature (°C):

Not available. Viscosity: Not available. Explosive properties: Not available. Oxidising properties:

9.2. Other information

Other data: Not available.

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## **SECTION 10: STABILITY AND REACTIVITY**

10.1. Reactivity

Not reactive. Reactivity:

10.2. Chemical stability

Stability: Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

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

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):

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.

Based on available data, the classification criteria are not met.

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Based on available data, the classification criteria are not met.

sensitisation:

Aspiration hazard:

Germ cell mutagenicity:

Carcinogenicity:

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

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Based on available data, the classification criteria are not met.

<u>Inhalation:</u> Inhalation of oil mist or vapours formed during heating of the product will irritate

Based on available data, the classification criteria are not met.

the respiratory system and provoke coughing.

Skin contact: Degreasing. Prolonged or repeated contact with skin may cause redness, itching,

irritation and eczema/chapping.

<u>Eye contact:</u> Direct contact may irritate.

<u>Ingestion:</u> May irritate and cause malaise.

Specific effects: Prolonged or repeated contact with used grease may cause serious skin

diseases, such as dermatitis.

#### 11.2. Information on other hazards

Endocrine disrupting The product does not contain any substance identified as having endocrine

<u>properties:</u> disrupting properties.

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## **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

<u>Ecotoxicity:</u> Greases are generally hazardous to the environment.

## 12.2. Persistence and degradability

<u>Degradability:</u> 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 The product does not contain any substance identified as having endocrine

properties: 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

<u>UN-No:</u> Not regulated.

## 14.2. UN proper shipping name

<u>Proper Shipping Name:</u> 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.

#### 14.6. Special precautions for user

Special precautions: None known.

### 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, 2, 3, 4, 6, 8, 11, 12, 13, 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.

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.

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