

# SAFETY DATA SHEET



Product name: Omega 85  
Supersedes date: 2015-05-08  
Product No.:

Page: 1/8  
Last revised date: 2016-05-09  
SDS-ID: GB-EN/2.1

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

### 1.1. Product identifier

Product name: Omega 85  
Container size: 400 g, 5 kg, 15 kg, 55 kg, 200 kg

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

Application: Lubricating grease.

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

#### Supplier:



**HumanTec** GmbH

Werkstraße 18

33818 LEOPOLDSHÖHE

#### Manufacturer

### 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

Safety data sheet available on request.

### 2.3. Other hazards

Other: Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema, skin cracking and oil acne. The harmful effects may increase in used grease.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

The product contains: mineral oil and additives.  
Only classified substances above threshold limits are shown.

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CLP:

| %:   | CAS-No.:   | EC No.: | REACH Reg. No.:   | Chemical name:   | Hazard classification: | Notes: |
|------|------------|---------|-------------------|--|------------------------|--------|
| 5-10 | 43136-14-7 |         | 01-0000015620-79- | 3,3'-Diocetadecyl-1,1'-methylenebis(4,1-phenylene)diurea | Aquatic Chronic 4;H413 |        |

Notes: 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 up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Rinse mouth with water. Do not induce vomiting. Get medical attention.

### 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.  
Move container from fire area if it can be done without risk.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards: During fire, gases hazardous to health may be formed.  
Do not allow runoff to sewer, waterway or ground.

### 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.

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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. Eliminate all sources of ignition. 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 in vermiculite, dry sand or earth and place into containers. 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.  
Do not eat, drink or smoke when using the product.

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. (5-40°C)  
Protect against direct sunlight.

### **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.

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. 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 appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures: Wash hands after contact. Change contaminated clothing.

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>Appearance:</u>                              | Grease.               |
| <u>Colour:</u>                                  | Blue.                 |
| <u>Odour:</u>                                   | Characteristic.       |
| <u>Odour threshold:</u>                         | Not available.        |
| <u>pH:</u>                                      | Not available.        |
| <u>Melting point / freezing point:</u>          | Not available.        |
| <u>Boiling point:</u>                           | Not available.        |
| <u>Flash point:</u>                             | >200 °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 relevant.         |
| <u>Vapour density:</u>                          | Not relevant.         |
| <u>Relative density:</u>                        | 1,038 (20°C)          |
| <u>Solubility:</u>                              | Immiscible with 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> | No information 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

Hazardous Reactions: None known.

### 10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight. Protect from moisture.

### 10.5. Incompatible materials

Incompatible materials: Avoid contact with acids and oxidising substances.

### 10.6. Hazardous decomposition products

Hazardous decomposition products: During fire, gases hazardous to health may be formed.

## 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.

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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: No data available.

### 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

## 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: -

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

Transport in bulk: -

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## 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.  
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.

## 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

### Wording of H-statements:

H413 May cause long lasting harmful effects to aquatic life.

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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.



**HumanTec** GmbH  
Werkstraße 18  
33818 LEOPOLDSHÖHE



**TYPICAL DATA:**

| TEST  | ASTM<br>TEST<br>METHOD | TEST RESULT                    |             |
|---|------------------------|--------------------------------|-------------|
|   |                        | NLGI#2                         | NLGI#0      |
| Mineral Oil Base: -                             |                        |                                |             |
| Viscosity, cSt at 40°C (104°F)                  | D-445                  | 126                            | 126         |
| Viscosity, cSt at 100°C (212°F)                 | D-445                  | 11.7                           | 11.7        |
| Viscosity Index                                 | D-2270                 | 75                             | 75          |
| Unworked Penetration @ 77°F                     | D-217                  | 278                            | 362         |
| Worked Penetration: -                           |                        |                                |             |
| 60 Strokes                                      | D-217                  | 280                            | 366         |
| 10,000 Strokes                                  | D-217                  | 293                            | 376         |
| 100,000 Strokes                                 | D-217                  | 310                            | -           |
| Dropping Point, °C (°F)                         | D-2265                 | 270 (520)                      | 257 (495)   |
| Roll Stability (% Change)                       | D-1831                 | 292 (+4.3)                     | 410 (+10.2) |
| Rust Prevention                                 | D-1743                 | Pass                           |             |
| Timken, OK Load, Lbs                            | D-2509                 | 60                             | -           |
| Oil Separation, % Loss                          | D-1742                 | 0.3                            | -           |
| Four-Ball Wear Protection,<br>Scar Diameter, mm | D-2266                 | 0.4                            | 0.37        |
| Four-Ball EP Performance                        |                        |                                |             |
| Load Wear Index                                 | D-2596                 | 100                            | -           |
| Weld Point, Kgf                                 | D-2596                 | 500                            | 400         |
| Water Washout                                   |                        |                                |             |
| Percentage (%) Loss, @ 100°F                    |                        | N/A                            | N/A         |
| Percentage (%) Loss, @ 175°F                    |                        | 2                              |             |
| Mobility at 0°F, gm/sec                         | USS Method             | 0.20                           | 0.64        |
| Operating Temperature Range °C (°F)             | -                      | -10 to 230°C<br>(-14 to 446°F) |             |
| Color   | -                      | Royal Blue                     |             |

**Omega 85 "Shear Sensation Plus" exceeds the requirements of specification NLGI GC/LB (ASTM D-4950).**



**HumanTec** GmbH

Werkstraße 18

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