

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

|                 |                          |
|-----------------|--------------------------|
| Product form    | : Mixture                |
| Product name    | : Lithium Grease NLGI-II |
| Product code    | : T7304                  |
| Type of product | : Lubricants, Grease     |
| Synonyms        | : Lithium Greases        |
| Product group   | : Blend                  |

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

##### 1.2.1. Relevant identified uses

|                                  |  |
|----------------------------------|--|
| Intended for general public      |  |
| Main use category                | : Industrial use, Professional use   |
| Industrial/Professional use spec | : Distribution<br>Formulation & (re)packing of substances and mixtures<br>Used in closed systems |
| Function or use category         | : Lubricants, Greases and Release Products   |

##### 1.2.2. Uses advised against

|                     |   |
|---------------------|---|
| Restrictions on use | : Comply with instructions for use (refer to technical sheet) |
|---------------------|---|

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

##### Supplier

QUANTUM LUBRICANTS

G. Karamichalis & Co EE

Dim. Gounari 35

165 62 Glyfada - Attiki

Tel: 0030 210 963 85 10

[quantum@quantum-oils.com](mailto:quantum@quantum-oils.com)

#### 1.4. Emergency telephone number

|                  |                                 |
|------------------|---------------------------------|
| Emergency number | : Unified emergency number: 112 |
|------------------|---------------------------------|

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

|                                    |  |
|------------------------------------|--|
| Precautionary statements (CLP)     | : P101 - If medical advice is needed, have product container or label at hand<br>P102 - Keep out of reach of children<br>P264 - Wash hands, forearms and face thoroughly after handling<br>P280 - Wear eye protection, protective gloves<br>P362 - Take off contaminated clothing<br>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation |
| EUH-statements                     | : EUH210 - Safety data sheet available on request  |
| Security closing plug for children | : Not applicable   |
| Tactile warning                    | : Not applicable   |

# Lithium Grease NLGI-II

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name  | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]    |
|---|--|---------|--|
| Distillates (petroleum), hydrotreated heavy paraffinic    | (CAS-No.) 64742-54-7<br>(EC-No.) 265-157-1<br>(REACH-no) 01-2119484627-25-0035; 01-2119484627-25-0025; 01-2119471299-27-0019 | 0 - 100 | Expl. Not classified   |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | (CAS-No.) 64742-65-0<br>(EC-No.) 265-169-7<br>(REACH-no) 01-2119471299-27-0016; 01-2119471299-27-0003                        | 0 - 100 | Not classified   |
| Zinc alkyl-dithiophosphate                                | (CAS-No.) 68649-42-3<br>(EC-No.) 272-028-3   | < 1     | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411 |

Comments : Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Not available REACH number or substance is not currently required for registration under REACH

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : If medical advice is needed, have product container or label at hand. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Get immediate medical advice/attention.

First-aid measures after skin contact : Wash skin with plenty of water. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause drowsiness or dizziness. May cause headache, nausea and irritation of respiratory tract.

Symptoms/effects after skin contact : Contact during a long period may cause light irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : May cause slight irritation. redness, itching, tears.

Symptoms/effects after ingestion : Ingestion may cause nausea and vomiting. Risk of lung oedema.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : In case of fire and/or explosion do not breathe fumes.

# Lithium Grease NLGI-II

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so. Evacuate area.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.  
Other information : On exposure to high temperature, may decompose, releasing toxic gases.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Clean up any spills as soon as possible, using an absorbent material to collect it. Eliminate every possible source of ignition.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapours.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate area. Stop release. Cover spill with non combustible material, e.g.: sand/earth. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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

Technical measures : Comply with applicable regulations. Use only non-sparking tools.  
Storage conditions : Store in a well-ventilated place. Keep cool.  
Incompatible products : Oxidizing agent. Strong acids. Strong bases.  
Incompatible materials : Sources of ignition.

### 7.3. Specific end use(s)

Product information.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Lithium Grease NLGI-II   |                    |          |
|--|--------------------|----------|
| EU   | IOELV TWA (mg/m³)  | 5 mg/m³  |
| EU   | IOELV STEL (mg/m³) | 10 mg/m³ |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)    |                    |          |
| EU   | IOELV TWA (mg/m³)  | 5 mg/m³  |
| EU   | IOELV STEL (mg/m³) | 10 mg/m³ |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |                    |          |
| EU   | IOELV TWA (mg/m³)  | 5 mg/m³  |
| EU   | IOELV STEL (mg/m³) | 10 mg/m³ |

# Lithium Grease NLGI-II

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Gloves. Protective clothing. Protective goggles.

#### Hand protection:

protective gloves: neoprene gloves, PVA. Chemical resistant PVC gloves (to European standard EN 374 or equivalent). EN 420

#### Eye protection:

Safety glasses. EN 166. EN 168

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN 405



#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state                             | : Solid   |
| Colour                                     | : dark yellow.  |
| Odour                                      | : characteristic.                                       |
| Odour threshold                            | : No data available                                     |
| pH   | : No data available                                     |
| Relative evaporation rate (butylacetate=1) | : No data available                                     |
| Melting point                              | : Not applicable  |
| Freezing point                             | : No data available                                     |
| Boiling point                              | : > 230 °C Base Oil                                     |
| Flash point                                | : No data available                                     |
| Auto-ignition temperature                  | : No data available                                     |
| Decomposition temperature                  | : No data available                                     |
| Flammability (solid, gas)                  | : Not applicable  |
| Vapour pressure                            | : No data available                                     |
| Relative vapour density at 20 °C           | : < 1   |
| Relative density                           | : No data available                                     |
| Solubility                                 | : soluble in most organic solvents. insoluble in water. |
| Log Pow                                    | : No data available                                     |
| Viscosity, kinematic                       | : 100 cSt @40°C   |
| Viscosity, dynamic                         | : No data available                                     |
| Explosive properties                       | : Not applicable.                                       |
| Oxidising properties                       | : Not applicable.                                       |
| Explosive limits                           | : No data available                                     |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

# Lithium Grease NLGI-II

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) |   |
|---|---|
| LD50 oral rat   | > 5000 mg/kg bodyweight (OECD 401 method) |
| LD50 dermal rabbit  | > 2000 mg/kg bodyweight (OECD 402 method) |
| LC50 inhalation rat (mg/l)  | > 5 mg/l/4h (OECD 403 method)             |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |   |
|--|---|
| LD50 oral rat  | > 5000 mg/kg bodyweight (OECD 401 method) |
| LD50 dermal rabbit   | > 2000 mg/kg bodyweight (OECD 402 method) |
| LC50 inhalation rat (mg/l)   | > 5 mg/l/4h (OECD 403 method)             |

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | : Not classified  |
| Serious eye damage/irritation     | : Not classified  |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met) |

| Lithium Grease NLGI-II |                              |
|------------------------|------------------------------|
| Viscosity, kinematic   | 100 mm <sup>2</sup> /s @40°C |

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

IARC group : 3

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) |  |
|---|--|
| LC50 fish 1   | > 100 mg/l (OECD 203 method)             |
| EC50 Daphnia 1  | > 10000 mg/l (OECD 202 method)           |
| EC50 72h algae (1)  | > 1000 mg/l (OECD 201 method)            |
| NOEL, aquatic invertebrates, Chronic                                | < 1 mg/l (21 days, (OECD 211 method))    |
| NOEL, algae, Chronic  | > 100 mg/l (72 Hours, (OECD 201 method)) |
| NOEL, microorganisms, Chronic                                       | > 1.93 mg/l (10 minutes, DIN 38412)      |
| NOEL, daphnia, Chronic  | > 10 mg/l (21 days)                      |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |                                       |
|--|---------------------------------------|
| LC50 fish 1  | > 100 mg/l (OECD 203 method)          |
| EC50 Daphnia 1   | > 10000 mg/l (OECD 202 method)        |
| EC50 72h algae (1)   | > 1000 mg/l (OECD 201 method)         |
| NOEL, aquatic invertebrates, Chronic                                   | < 1 mg/l (21 days, (OECD 211 method)) |

# Lithium Grease NLGI-II

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |  |
|--|--|
| NOEL, algae, Chronic   | > 100 mg/l (72 Hours, (OECD 201 method)) |
| NOEL, microorganisms, Chronic  | > 1.93 mg/l (10 minutes, DIN 38412)      |
| NOEL, daphnia, Chronic   | > 10 mg/l (21 days)                      |

### 12.2. Persistence and degradability

| Lithium Grease NLGI-II        |  |
|-------------------------------|--|
| Persistence and degradability | Not readily biodegradable, according to appropriate OECD test due to properties of several components. |

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) |  |
|---|--|
| Persistence and degradability                                       | Not readily biodegradable, according to appropriate OECD test due to properties of several components. |
| Biodegradation  | < 32 % (OECD 301B method)  |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |  |
|--|--|
| Persistence and degradability  | Not readily biodegradable, according to appropriate OECD test due to properties of several components. |
| Biodegradation   | < 32 % (OECD 301B method)  |

| Zinc alkyl-dithiophosphate (68649-42-3) |  |
|---|--|
| Persistence and degradability           | Not readily biodegradable, according to appropriate OECD test due to properties of several components. |

### 12.3. Bioaccumulative potential

| Lithium Grease NLGI-II    |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) |                                    |
|---|------------------------------------|
| Log Kow   | 3.5 - 6 Moderately bioaccumulative |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |                                    |
|--|------------------------------------|
| Log Kow  | 3.5 - 6 Moderately bioaccumulative |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

| Lithium Grease NLGI-II   |   |
|--|---|
| PBT: not relevant – no registration required                           |   |
| vPvB: not relevant – no registration required                          |   |
| Component  |   |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)    | PBT: not relevant – no registration required<br>vPvB: not relevant – no registration required |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | PBT: not relevant – no registration required<br>vPvB: not relevant – no registration required |

### 12.6. Other adverse effects

Additional information : No other effects known

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 13 08 99\* - wastes not otherwise specified

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : Not regulated  
UN-No. (IMDG) : Not regulated  
UN-No. (IATA) : Not regulated  
UN-No. (ADN) : Not regulated  
UN-No. (RID) : Not regulated

# Lithium Grease NLGI-II

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 14.2. UN proper shipping name

|                             |                 |
|-----------------------------|-----------------|
| Proper Shipping Name (ADR)  | : Not regulated |
| Proper Shipping Name (IMDG) | : Not regulated |
| Proper Shipping Name (IATA) | : Not regulated |
| Proper Shipping Name (ADN)  | : Not regulated |
| Proper Shipping Name (RID)  | : Not regulated |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |                 |
|----------------------------------|-----------------|
| Transport hazard class(es) (ADR) | : Not regulated |
|----------------------------------|-----------------|

#### IMDG

|                                   |                 |
|-----------------------------------|-----------------|
| Transport hazard class(es) (IMDG) | : Not regulated |
|-----------------------------------|-----------------|

#### IATA

|                                   |                 |
|-----------------------------------|-----------------|
| Transport hazard class(es) (IATA) | : Not regulated |
|-----------------------------------|-----------------|

#### ADN

|                                  |                 |
|----------------------------------|-----------------|
| Transport hazard class(es) (ADN) | : Not regulated |
|----------------------------------|-----------------|

#### RID

|                                  |                 |
|----------------------------------|-----------------|
| Transport hazard class(es) (RID) | : Not regulated |
|----------------------------------|-----------------|

### 14.4. Packing group

|                      |                 |
|----------------------|-----------------|
| Packing group (ADR)  | : Not regulated |
| Packing group (IMDG) | : Not regulated |
| Packing group (IATA) | : Not regulated |
| Packing group (ADN)  | : Not regulated |
| Packing group (RID)  | : Not regulated |

### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### - Overland transport

Not regulated

#### - Transport by sea

Not regulated

#### - Air transport

Not regulated

#### - Inland waterway transport

Not regulated

#### - Rail transport

Not regulated

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

# Lithium Grease NLGI-II

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:

|       |   |
|-------|---|
| ADN   | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR   | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE   | Acute Toxicity Estimate   |
| CLP   | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| BCF   | Bioconcentration factor   |
| DMEL  | Derived Minimal Effect level  |
| DNEL  | Derived-No Effect Level   |
| DPD   | Dangerous Preparations Directive 1999/45/EC   |
| DSD   | Dangerous Substances Directive 67/548/EEC   |
| EC50  | Median effective concentration  |
| IARC  | International Agency for Research on Cancer   |
| IATA  | International Air Transport Association   |
| IMDG  | International Maritime Dangerous Goods  |
| LC50  | Median lethal concentration   |
| LD50  | Median lethal dose  |
| LOAEL | Lowest Observed Adverse Effect Level  |
| NOAEC | No-Observed Adverse Effect Concentration  |
| NOAEL | No-Observed Adverse Effect Level  |
| NOEC  | No-Observed Effect Concentration  |
| OECD  | Organisation for Economic Co-operation and Development  |
| PBT   | Persistent Bioaccumulative Toxic  |
| PNEC  | Predicted No-Effect Concentration   |
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| vPvB  | Very Persistent and Very Bioaccumulative  |

Data sources : 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.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : None.

Full text of H- and EUH-statements:

|                      |   |
|----------------------|---|
| Aquatic Chronic 2    | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Expl. Not classified | Explosive Not classified  |
| Eye Dam. 1           | Serious eye damage/eye irritation, Category 1                     |
| Skin Irrit. 2        | Skin corrosion/irritation, Category 2                             |
| H315                 | Causes skin irritation  |
| H318                 | Causes serious eye damage   |
| H411                 | Toxic to aquatic life with long lasting effects                   |
| EUH210               | Safety data sheet available on request                            |

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*