

# SAFETY DATA SHEET

## Q8 Gluck M



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

#### 1.1 Product identifier

**Product name** : Q8 Gluck M  
**UFI** :  VN0-408E-H00G-KV51

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

**Material uses** : Heat transfer oil

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

**Supplier** : Q8 Danmark A/S  
Arne Jacobsens Allé 17  
2300 København S, Danmark  
Tel.: +45 7012 4545  
Email: produktteknik@Q8.dk  
Web: www.Q8.dk

**Manufacturer / Distributor** : Kuwait Petroleum Belgium N.V./S.A. / Q8Oils Italia S.r.l.  
Petroleumkaai 7 Via Volpedo 2  
B-2020 Antwerp 15050 Castellar Guidobono (AL)  
Belgium Italy

**e-mail address of person responsible for this SDS** : SDSinfo@Q8.com, communication preferably in English only.

**PCN Information contact** : PCNinfo@Q8.com, communication preferably in English only.

#### 1.4 Emergency telephone number

**Denmark** : +45 8988 2286  
**Europe** : +44 (0) 1235 239 670  
**Global (English only)** : +44 (0) 1865 407 333



#### National advisory body/Poison Center

**Denmark** : Bispebjerg Hospital - poison line : +45 8212 1212

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

ASPIRATION HAZARD Category 1 H304

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : None.

**Ingredients of unknown ecotoxicity** : None.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Q8 Gluck M

## SECTION 2: Hazards identification

**Hazard pictograms** :



**Signal word** :

Danger

**Hazard statements** :

H304 - May be fatal if swallowed and enters airways.

**Precautionary statements**

**Prevention** :

Not applicable.

**Response** :

P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

**Storage** :

Not applicable.

**Disposal** :

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** :

Severely refined mineral oil (C15 - C50) \* - H304

**Supplemental label elements** :

Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** :

Not applicable.

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** :

Not applicable.

**Tactile warning of danger** :

Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** :

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** :

Prolonged or repeated contact may dry skin and cause irritation.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** :

Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Severely refined mineral oil (C15 - C50) * - Not classified.	-	≥50 - ≤75	Not classified.	-	[2]
Severely refined mineral oil (C15 - C50) * - H304	-	≥25 - ≤50	Asp. Tox. 1, H304  <b>See Section 16 for the full text of the H statements declared above.</b>	-	[1] [2]

Q8 Gluck M

## SECTION 3: Composition/information on ingredients

Contains one or more of the following:

CAS: 64742-54-7, EC: 265-157-1, EU REACH: 01-2119484627-25

CAS: 64742-55-8, EC: 265-158-7, EU REACH: 01-2119487077-29

CAS: 64742-65-0, EC: 265-169-7, EU REACH: 01-2119471299-27

CAS: 72623-86-0, EC: 276-737-9, EU REACH: 01-2119474878-16

The mineral base oils contained in this product are severely refined and contain less than 3% DMSO extract according to IP 346 method, and are therefore not classified as carcinogen according to Regulation (EC) No 1272/2008, note L.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
dryness  
cracking
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog).

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

Q8 Gluck M

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Severely refined mineral oil (C15 - C50) * - Not classified.	<b>EU OEL (Europe)</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Mist.
Severely refined mineral oil (C15 - C50) * - H304	<b>EU OEL (Europe)</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Mist.

#### Biological exposure indices

No exposure indices known.

- Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

Not available.

Q8 Gluck M

## SECTION 8: Exposure controls/personal protection

### PNECs

Not available.

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Individual protection measures

**Hygiene measures** : Do not ingest. If swallowed then seek immediate medical assistance.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Wear suitable gloves tested to EN374. Recommended: < 1 hour (breakthrough time): nitrile rubber 0.17 mm. Provide employee with skin care programmes.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: Boiling point > 65 °C: A1; Boiling point < 65 °C: AX1; Hot material: A1P2. Gas and combination filter cartridges should comply with the European standard EN14387.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid. [Oily liquid.]
- Appearance** : Clear
- Color** : Yellow [Light]
- Odor** : Hydrocarbon. [Slight]
- Odor threshold** : Not available.
- Melting point/freezing point** : Not applicable.
- Pour point** : -24°C (-11.2°F) [ASTM D 97]



Q8 Gluck M

## SECTION 9: Physical and chemical properties

<b>Boiling point or initial boiling point and boiling range</b>	: >250°C (>482°F)
<b>Flammability</b>	: Not applicable.
<b>Lower and upper explosion limit</b>	: Not available.
<b>Flash point</b>	: Closed cup: >180°C (>356°F) [ASTM D 93] Open cup: >180°C (>356°F) [ASTM D 92]
<b>Auto-ignition temperature</b>	: >230°C (>446°F)
<b>Decomposition temperature</b>	: >250°C
<b>pH</b>	: Not applicable.
<b>Viscosity</b>	: Kinematic (40°C (104°F)): 19 mm <sup>2</sup> /s (19 cSt) Kinematic (100°C (212°F)): 4 mm <sup>2</sup> /s (4 cSt)
<b>Solubility</b>	:

Media	Result
cold water	Not soluble
hot water	Not soluble

<b>Partition coefficient n-octanol/water (log Pow)</b>	: Not applicable.
<b>Vapor pressure</b>	: <0.01 kPa (<0.075006 mm Hg)
<b>Density</b>	: 0.87 g/cm <sup>3</sup> [15°C (59°F)] [ASTM D 4052]
<b>Relative vapor density</b>	: Not available.
<b>Particle characteristics</b>	
<b>Median particle size</b>	: Not applicable.

### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

<b>Explosive properties</b>	: Not applicable.
<b>Oxidizing properties</b>	: Not applicable.

#### 9.2.2 Other safety characteristics

Not applicable.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: No specific data.
<b>10.5 Incompatible materials</b>	: Reactive or incompatible with the following materials: Strong oxidizing materials
<b>10.6 Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Q8 Gluck M

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Product/ingredient name

Severely refined mineral oil (C15 - C50) \* - Not classified.

##### Result

**Rabbit - Dermal - LD50**  
>5000 mg/kg

**Rat - Oral - LD50**  
>5000 mg/kg

**Rat - Male, Female - Inhalation - LC50 Dusts and mists**  
5.53 mg/l [4 hours]  
Acute Inhalation Toxicity

Severely refined mineral oil (C15 - C50) \* - H304

**Rabbit - Dermal - LD50**  
>5000 mg/kg

**Rat - Oral - LD50**  
>5000 mg/kg

**Rat - Male, Female - Inhalation - LC50 Dusts and mists**  
5.53 mg/l [4 hours]  
Acute Inhalation Toxicity

**Conclusion/Summary [Product]** : Not available.

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Severely refined mineral oil (C15 - C50) * - Not classified.	N/A	N/A	N/A	N/A	5.53
Severely refined mineral oil (C15 - C50) * - H304	N/A	N/A	N/A	N/A	5.53

#### Skin corrosion/irritation

##### Product/ingredient name

Severely refined mineral oil (C15 - C50) \* - Not classified.

##### Result

**Rabbit - Skin - Erythema/Eschar**  
Duration of treatment/exposure: 72 hours  
Observation period: 7 days  
Irritation score: 0.17  
Fully reversible in 7 days or less

**Rabbit - Skin - Edema**  
Duration of treatment/exposure: 72 hours  
Observation period: 7 days  
Irritation score: 0  
Fully reversible in 7 days or less

Severely refined mineral oil (C15 - C50) \* - H304

**Rabbit - Skin - Erythema/Eschar**  
Duration of treatment/exposure: 72 hours  
Observation period: 7 days  
Irritation score: 0.17  
Fully reversible in 7 days or less

**Rabbit - Skin - Edema**  
Duration of treatment/exposure: 72 hours  
Observation period: 7 days  
Irritation score: 0  
Fully reversible in 7 days or less



Q8 Gluck M

## SECTION 11: Toxicological information

**Conclusion/Summary [Product]** : Not available.

### Serious eye damage/eye irritation

#### **Product/ingredient name**

Severely refined mineral oil (C15 - C50) \* -  
Not classified.

#### **Result**

##### **Rabbit - Eyes - Iris lesion**

Acute Eye Irritation/Corrosion  
Duration of treatment/exposure: 48 hours  
Observation period: 72 hours  
Irritation score: 0  
Fully reversible in 7 days or less

##### **Rabbit - Eyes - Redness of the conjunctivae**

Acute Eye Irritation/Corrosion  
Duration of treatment/exposure: 48 hours  
Observation period: 72 hours  
Irritation score: 0.33  
Fully reversible in 7 days or less

Severely refined mineral oil (C15 - C50) \* -  
H304

##### **Rabbit - Eyes - Iris lesion**

Acute Eye Irritation/Corrosion  
Duration of treatment/exposure: 48 hours  
Observation period: 72 hours  
Irritation score: 0  
Fully reversible in 7 days or less

##### **Rabbit - Eyes - Redness of the conjunctivae**

Acute Eye Irritation/Corrosion  
Duration of treatment/exposure: 48 hours  
Observation period: 72 hours  
Irritation score: 0.33  
Fully reversible in 7 days or less

**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

#### **Product/ingredient name**

Severely refined mineral oil (C15 - C50) \* -  
Not classified.

#### **Result**

##### **Guinea pig - skin**

Skin Sensitization  
Result: Not sensitizing

Severely refined mineral oil (C15 - C50) \* -  
H304

##### **Guinea pig - skin**

Skin Sensitization  
Result: Not sensitizing

### **Skin**

**Conclusion/Summary [Product]** : Not available.

### **Respiratory**

**Conclusion/Summary [Product]** : Not available.

Q8 Gluck M

## SECTION 11: Toxicological information

### Germ cell mutagenicity

#### Product/ingredient name

Severely refined mineral oil (C15 - C50) \* -  
Not classified.

#### Result

**In vivo - Mammalian-Animal - Somatic - Intraperitoneal**  
Mammalian Erythrocyte Micronucleus Test  
Result: Negative

Severely refined mineral oil (C15 - C50) \* -  
H304

**In vivo - Mammalian-Animal - Somatic - Intraperitoneal**  
Mammalian Erythrocyte Micronucleus Test  
Result: Negative

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

#### Product/ingredient name

Severely refined mineral oil (C15 - C50) \* -  
Not classified.

#### Result

**Mouse - Female - Dermal - TC**  
Carcinogenicity Studies  
78 weeks  
Result: Negative

Severely refined mineral oil (C15 - C50) \* -  
H304

**Mouse - Female - Dermal - TC**  
Carcinogenicity Studies  
78 weeks  
Result: Negative

**Conclusion/Summary [Product]** : Not available.

### Reproductive toxicity

#### Product/ingredient name

Severely refined mineral oil (C15 - C50) \* -  
Not classified.

#### Result

**Rat - Male, Female - Oral**  
Reproduction/Developmental Toxicity Screening Test  
1000 mg/kg  
Effects: No effect level.  
Maternal toxicity: Negative  
Fertility effects: Negative  
Developmental: Negative

Severely refined mineral oil (C15 - C50) \* -  
H304

**Rat - Male, Female - Oral**  
Reproduction/Developmental Toxicity Screening Test  
1000 mg/kg  
Effects: No effect level.  
Maternal toxicity: Negative  
Fertility effects: Negative  
Developmental: Negative

**Conclusion/Summary [Product]** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

#### Product/ingredient name

#### Result

Q8 Gluck M

## SECTION 11: Toxicological information

Severely refined mineral oil (C15 - C50) \* - H304 ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

Not available.

### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Defatting to the skin. May cause skin dryness and irritation.  
**Ingestion** : May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : Adverse symptoms may include the following:  
irritation  
dryness  
cracking  
**Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

#### Product/ingredient name

Severely refined mineral oil (C15 - C50) \* - Not classified.

#### **Result**

##### **Sub-chronic - Rat - Male, Female - Oral - NOAEL**

Subchronic Dermal Toxicity: 90-day Study  
≥2000 mg/kg [5 days per week] [13 weeks]

##### **Sub-acute - Rat - Male - Oral - LOAEL**

Repeated Dose 90-Day Oral Toxicity Study in Rodents  
125 mg/kg [5 hours per day] [13 weeks]

##### **Sub-acute - Rat - Male - Inhalation - NOAEL**

>980 mg/m<sup>3</sup> [5 days per week] [4 weeks]

Severely refined mineral oil (C15 - C50) \* - H304

##### **Sub-chronic - Rat - Male, Female - Oral - NOAEL**

Subchronic Dermal Toxicity: 90-day Study  
≥2000 mg/kg [5 days per week] [13 weeks]

##### **Sub-acute - Rat - Male - Oral - LOAEL**

Repeated Dose 90-Day Oral Toxicity Study in Rodents  
125 mg/kg [5 hours per day] [13 weeks]

##### **Sub-acute - Rat - Male - Inhalation - NOAEL**

>980 mg/m<sup>3</sup> [5 days per week] [4 weeks]

**Conclusion/Summary [Product]** : Not available.

- General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.

Q8 Gluck M

## SECTION 11: Toxicological information

**Reproductive toxicity** : No known significant effects or critical hazards.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product/ingredient name

Severely refined mineral oil (C15 - C50) \* -  
Not classified.

#### Result

##### Acute - NEL - Fresh water

Fish, Acute Toxicity Test  
Fish - *Pimephales promelas*  
≥100 mg/l [96 hours]

##### Acute - NEL - Fresh water

Daphnia sp. Acute Immobilization Test and Reproduction Test  
Daphnia - *Daphnia Magma*  
>10000 mg/l [48 hours]

##### Chronic - NEL - Fresh water

Daphnia Magna Reproduction Test  
Daphnia - *Daphnia magna*  
10 mg/l [21 days]  
Effect: Reproduction

##### Acute - NEL - Fresh water

Alga, Growth Inhibition Test  
Algae  
>100 mg/l [72 hours]  
Effect: (growth rate)

Severely refined mineral oil (C15 - C50) \* -  
H304

##### Acute - NEL - Fresh water

Fish, Acute Toxicity Test  
Fish - *Pimephales promelas*  
≥100 mg/l [96 hours]

##### Acute - NEL - Fresh water

Daphnia sp. Acute Immobilization Test and Reproduction Test  
Daphnia - *Daphnia Magma*  
>10000 mg/l [48 hours]

##### Chronic - NEL - Fresh water

Daphnia Magna Reproduction Test  
Daphnia - *Daphnia magna*  
10 mg/l [21 days]  
Effect: Reproduction

##### Acute - NEL - Fresh water

Alga, Growth Inhibition Test  
Algae  
>100 mg/l [72 hours]  
Effect: (growth rate)

**Conclusion/Summary [Product]** : Not available.

Q8 Gluck M

## SECTION 12: Ecological information

### 12.2 Persistence and degradability

Not available.

**Conclusion/Summary [Product]** : This product is inherently biodegradable.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<input checked="" type="checkbox"/> Severely refined mineral oil (C15 - C50) * - Not classified.	-	-	Inherent
Severely refined mineral oil (C15 - C50) * - H304	-	-	Inherent

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

#### Soil/Water partition coefficient

Not available.

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
<input checked="" type="checkbox"/> Severely refined mineral oil (C15 - C50) * - Not classified.	No	No	No	No	No	No	No
Severely refined mineral oil (C15 - C50) * - H304	No	No	No	No	No	No	No

**Mobility** : Not available.

**Conclusion/Summary** :  The product does not meet the criteria to be considered as a PMT or vPvM.

### 12.5 Results of PBT and vPvB assessment

#### Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
<input checked="" type="checkbox"/> Severely refined mineral oil (C15 - C50) * - Not classified.	No	No	No	No	No	No	No
Severely refined mineral oil (C15 - C50) * - H304	No	No	No	No	No	No	No

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

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
<input checked="" type="checkbox"/> Severely refined mineral oil (C15 - C50) * - Not classified.	No	No	No	No	No	No	No
Severely refined mineral oil (C15 - C50) * - H304	No	No	No	No	No	No	No

**Conclusion/Summary** :  The product does not meet the criteria to be considered as a PBT or vPvB.

**Regulation (EC) No. 1272/2008 [CLP]**

### 12.6 Endocrine disrupting properties

Not available.

Q8 Gluck M

## SECTION 12: Ecological information

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

#### European waste catalogue (EWC)

Waste code	Waste designation
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number or ID number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-	-
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5 Environmental hazards</b>	No.	No.	No.	No.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Q8 Gluck M

## SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments : Not available.

## SECTION 15: Regulatory information

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

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorization](#)

[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)

None of the components are listed.

[Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles](#)

Product/ingredient name	%	Designation [Usage]
Q8 Gluck M	≥90	3

Labeling : Not applicable.

[Other EU regulations](#)

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Explosive precursors : Not applicable.

[Ozone depleting substances \(EU 2024/590\)](#)

Not listed.

[Prior Informed Consent \(PIC\) \(649/2012/EU\)](#)

Not listed.

[Persistent Organic Pollutants \(1021/2019/EU\)](#)

Not listed.

[Seveso Directive](#)

This product is not controlled under the Seveso Directive.

[National regulations](#)

[Denmark](#)

Product registration number : 4036933

Fire class : IV-1

MAL-code : 00-1

Protection based on MAL : According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

**General:** Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.



Q8 Gluck M

## SECTION 15: Regulatory information

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-1

**Application:** When spraying in existing\* spray booths, if the operator is outside the spray zone.

- Arm protectors must be worn.

During all spraying where atomization occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Full mask with combined filter, coveralls and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

**Caution** The regulations contain other stipulations in addition to the above.

\*See Regulations.

**Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

### Germany

**Hazard class for water (WGK)** : 1

### Switzerland

**VOC content** : Exempt.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Australia** : All components are listed or exempted.

**Canada** : All components are listed or exempted.

Q8 Gluck M

## SECTION 15: Regulatory information

<b>China</b>	: All components are listed or exempted.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory</b> : All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: All components are listed or exempted.
<b>Turkey</b>	: All components are listed or exempted.
<b>United States of America</b>	: All components are active or exempted.
<b>Viet Nam</b>	: All components are listed or exempted.
<b>15.2 Chemical Safety Assessment</b>	: Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.
<b>Exposure Scenario information</b>	: This product has been assessed according to the REACH regulation. All Risk Management Measures of the contained substances are covered by the main body of this Safety Data Sheet.

## SECTION 16: Other information

🔍 Indicates information that has changed from previously issued version.

<b>Abbreviations and acronyms</b>	: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ASTM = American Society for Testing and Materials ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DIN = German Institute for Standardization DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EC = European Commission EC50 = Half maximal effective concentration EN = European Standard (Norm) EUH statement = CLP-specific Hazard statement GHS - Globally Harmonized System of Classification and Labeling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IC50 = Half maximal inhibitory concentration IMDG = International Maritime Dangerous Goods IMO = International Maritime Organisation ISO = International Organization for Standardization LC50 = Median lethal concentration LD50 = Median lethal dose LOAEL / LOAEC = Lowest Observed Adverse Effect Level / Concentration MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available NOAEL / NOAEC = No Observed Adverse Effect Level / Concentration NOEL / NOEC = No Observed Effect Level / Concentration OECD = Organisation for Economic Co-operation and Development OEL = Occupational Exposure Limit PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
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Q8 Gluck M

## SECTION 16: Other information

Regulation [Regulation (EC) No. 1907/2006]  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
SDS = Safety Data Sheet  
SVHC = Substances of Very High Concern  
STEL = Short Term Exposure Limit  
TLV = Threshold Limit Value  
TWA = Time Weighted Average  
UFI = Unique Formula Identifier  
UN = United Nations  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Asp. Tox. 1, H304	Calculation method

The mineral base oils contained in this product are severely refined and contain less than 3% DMSO extract according to IP 346 method, and are therefore not classified as carcinogen according to Regulation (EC) No 1272/2008, note L.

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.

### Full text of abbreviated H statements

H304	May be fatal if swallowed and enters airways.
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### Full text of classifications [CLP/GHS]

Asp. Tox. 1	ASPIRATION HAZARD - Category 1
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**Training advice** : Ensure operatives are trained to minimise exposures.  
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**Prepared by** : Kuwait Petroleum Research & Technology B.V., The Netherlands

### Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.