

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

#### 1.1 Product identifier

**Product name:** QUANTUM LONGLIFE IV 0W-20

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

**Identified uses:** Lubricant

**Uses advised against:** No uses advised against identified.

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

**Manufacturer / Supplier** VOLKSWAGEN GROUP UK LTD  
YEOMANS DRIVE  
BLAKELANDS  
MILTON KEYNES  
MK14 5AN

Telephone: 01782 203717

**Contact Person:** Oil Product Manager  
**E-mail:** quantum@vwg.co.uk

**1.4 Emergency telephone number:** UK NHS: Dial 111. Ireland NPIS: Dial +353 1 8092566.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous, but needs to be labelled according to regulation (EU) 1272/2008 (CLP).

#### Hazard summary

**Physical Hazards:** No data available.

#### 2.2 Label Elements

EUH208: Contains Calcium long chain alkyl salicylate, Ca Sulfonate. May produce an allergic reaction.

EUH210: Safety data sheet available on request.

#### 2.3 Other hazards:

By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

### SECTION 3: Composition/information on ingredients

**Product name:** QUANTUM LONGLIFE IV 0W-20

### 3.2 Mixtures

**General information:** Mixture containing severely refined base oils and additives.

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Base oil paraffinic	EINECS: 265-157-1	50,00 - <100,00%	01-2119484627-25	
Polyolefin polyamine succinimide	Polymer	1,00 - <5,00%		
alkylamine, longchained	EINECS: 253-249-4	1,00 - <5,00%	01-2119488911-28	
Calcium long chain alkyl salicylate	EC: 931-276-9	1,00 - <5,00%		
alkylphenol ester	Confidential	1,00 - <5,00%	Confidential	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. PBT: persistent, bioaccumulative and toxic substance.  
vPvB: very persistent and very bioaccumulative substance.

### Classification

Chemical name	Identifier	Classification	
Base oil paraffinic	EINECS: 265-157-1	CLP:	Asp. Tox. 1;H304
Polyolefin polyamine succinimide	Polymer	CLP:	Aquatic Chronic 4;H413
alkylamine, longchained	EINECS: 253-249-4	CLP:	Aquatic Chronic 4;H413
Calcium long chain alkyl salicylate	EC: 931-276-9	CLP:	Skin Sens. 1;H317, Aquatic Chronic 4;H413
alkylphenol ester	Confidential	CLP:	Aquatic Chronic 4;H413

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements refer to section 16.

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation EC 1272/2008."

## SECTION 4: First aid measures

**General:** Instantly remove any clothing soiled by the product.

### 4.1 Description of first aid measures

**Inhalation:** Supply fresh air; consult doctor in case of symptoms.

**Eye contact:** Promptly wash eyes with plenty of water while lifting the eye lids.

**Skin Contact:** Wash with soap and water.

**Ingestion:** Rinse mouth thoroughly.

**4.2 Most important symptoms and effects, both acute and delayed:** May cause skin and eye irritation.

**4.3 Indication of any immediate medical attention and special treatment needed** Get medical attention if symptoms occur.

Product name: QUANTUM LONGLIFE IV 0W-20

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media:** CO<sub>2</sub>, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

**Unsuitable extinguishing media:** Water with a full water jet.

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

During fire, gases hazardous to health may be formed.

#### 5.3 Advice for firefighters

**Special fire fighting procedures:** Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** In case of spills, beware of slippery floors and surfaces.

**6.2 Environmental Precautions:** Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

**6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

**6.4 Reference to other sections:** See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

### SECTION 7: Handling and storage:

**7.1 Precautions for safe handling:** Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibilities:** Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the flash point.

**7.3 Specific end use(s):** No data available.

**Product name:** QUANTUM LONGLIFE IV 0W-20

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**Storage Class:** 10, Combustible liquids

<b>SECTION 8: Exposure controls/personal protection</b>
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**8.1 Control Parameters**

**Occupational Exposure Limits**

None of the components have assigned exposure limits.

**8.2 Exposure controls**

**Appropriate engineering controls:**

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

**General information:**

Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

**Eye/face protection:**

Safety glasses (EN 166) recommended during refilling.

**Skin protection**

**Hand Protection:**

Material: Nitrile butyl rubber (NBR).  
Min. Breakthrough time:  $\geq 480$  min  
Recommended thickness of the material:  $\geq 0,38$  mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Other:**

Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

**Respiratory Protection:**

Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

**Thermal hazards:**

Not known.

**Hygiene measures:**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Environmental Controls:**

No data available.

Product name: QUANTUM LONGLIFE IV 0W-20

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state:	liquid
Form:	liquid
Color:	Green
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	not applicable
Freezing point:	Not applicable for mixtures
Boiling Point:	Value not relevant for classification
Flash Point:	230 °C
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Flammability Limit - Upper (%)-:	Not applicable for mixtures
Flammability Limit - Lower (%)-:	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Vapor density (air=1):	Not applicable for mixtures
Density:	0,84 g/ml (15,00 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Kinematic viscosity:	42,3 mm <sup>2</sup> /s (40,00 °C)
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
9.2 Other information	No data available.

## SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal use conditions.
10.2 Chemical Stability:	Stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use conditions.
10.4 Conditions to avoid:	Stable under normal use conditions.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Product name: QUANTUM LONGLIFE IV 0W-20

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

**Oral**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

Base oil paraffinic

LD 50 (Rat): > 5.000 mg/kg

alkarylamine,  
longchained

LD 50 (Rat): > 5.001 mg/kg (OECD 423)

**Dermal**

**Product:**

Not classified for acute toxicity based on available data.

**Specified substance(s)**

Base oil paraffinic

LD 50 (Rabbit): > 5.000 mg/kg

**Inhalation**

**Product:**

Not classified for acute toxicity based on available data.

**Skin Corrosion/Irritation:**

**Product:**

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

**Specified substance(s)**

alkarylamine,  
longchained

OECD 404 (Rabbit):  
Not irritant.

**Serious Eye Damage/Eye Irritation:**

**Product:**

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

**Specified substance(s)**

alkarylamine,  
longchained

OECD 405 (Rabbit):  
Not irritant.

**Respiratory or Skin Sensitization:**

**Product:**

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

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

**Specified substance(s)**

alkarylamine,  
longchained

No sensitizing effect (guinea pig); OECD 406

**Germ Cell Mutagenicity**

**Product:**

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

**Carcinogenicity**

**Product:**

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

**Reproductive toxicity**

**Product name:** QUANTUM LONGLIFE IV 0W-20

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

**Specific Target Organ Toxicity - Single Exposure**

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

**Specific Target Organ Toxicity - Repeated Exposure**

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

**Aspiration Hazard**

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

**Other adverse effects:** No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

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

**Fish**

**Specified substance(s)**

alkarylamine,  
longchained

LC 50 (Fish, 96 h): > 101 mg/l (OECD 203)

**Aquatic Invertebrates**

**Specified substance(s)**

alkarylamine,  
longchained

EC 50 (Water Flea, 48 h): > 101 mg/l (OECD 202)

**Chronic Toxicity**

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

**Toxicity to Aquatic Plants**

**Specified substance(s)**

alkarylamine,  
longchained

EC 50 (Alga, 72 h): > 101 mg/l (OECD 201)

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:** Not applicable for mixtures

**Specified substance(s)**

alkarylamine,  
longchained

1 % (28 d, OECD 301B) Not easily biodegradable

**12.3 Bioaccumulative potential**

**Product:** Not applicable for mixtures

**Specified substance(s)**

alkarylamine,  
longchained

Bioconcentration Factor (BCF): 1.584

**12.4 Mobility in soil:**

**Product:** Not applicable for mixtures

**Product name:** QUANTUM LONGLIFE IV 0W-20

**12.5 Results of PBT and vPvB assessment:** The product does not contain any substances fulfilling the PBT/vPvB criteria.

**12.6 Other adverse effects:** No data available.

**Water Hazard Class (WGK):** WGK 2: water-endangering.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**General information:** Dispose in accordance with all applicable regulations.

**Disposal methods:** Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.

#### European Waste Codes

13 02 05\*: mineral-based non-chlorinated engine, gear and lubricating oils

### SECTION 14: Transport information

#### ADR/RID

14.1 UN Number: —  
 14.2 UN Proper Shipping Name: —  
 14.3 Transport Hazard Class(es)  
   Class: Non-dangerous goods  
   Label(s): —  
   Hazard No. (ADR): —  
   Tunnel restriction code: —  
 14.4 Packing Group: —  
 14.5 Environmental hazards: —  
 14.6 Special precautions for user: —

#### ADN

14.1 UN Number: —  
 14.2 UN Proper Shipping Name: —  
 14.3 Transport Hazard Class(es)  
   Class: Non-dangerous goods  
   Label(s): —  
 14.3 Packing Group: —  
 14.5 Environmental hazards: —  
 14.6 Special precautions for user: —



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**IMDG**

14.1 UN Number: –  
14.2 UN Proper Shipping Name: –  
14.3 Transport Hazard Class(es)  
Class: Non-dangerous goods  
Label(s): –  
EmS No.: –  
14.3 Packing Group: –  
14.5 Environmental hazards: –  
14.6 Special precautions for user: –

**IATA**

14.1 UN Number: –  
14.2 Proper Shipping Name: –  
14.3 Transport Hazard Class(es):  
Class: Non-dangerous goods  
Label(s): –  
14.4 Packing Group: –  
14.5 Environmental hazards: –  
14.6 Special precautions for user: –

**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:**

**EU Regulations**

**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none

**Regulation (EC) No. 850/2004 on persistent organic pollutants:** none

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**Revision Information:** Vertical lines in the margin indicate an amendment.

**Wording of the H-statements in section 2 and 3**

H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.  
H413 May cause long lasting harmful effects to aquatic life.

**Other information:** The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

**Revision Date:** 07.07.2017



**Product name:** QUANTUM LONGLIFE IV 0W-20

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**Disclaimer:**

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.