

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 SYNTA C-4 5W30

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

FUCHS LUBRICANTS (UK) PLC.
New Century Street
Hanley
Stoke-on-Trent, Staffordshire, ST1 5HU
UK

Telephone: +44 (0) 1782 203700

Contact Person:

Product Safety department
Telephone: +44 (0) 1782 203700
E-mail: product.safety@fuchs-oil.com

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 been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

Environmental Hazards

Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.
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Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Hazard Statement(s): H412: Harmful to aquatic life with long lasting effects.

Product name: QUANTUM SYNTA C-4 5W30

Precautionary Statement

Prevention: P273: Avoid release to the environment.

Supplemental label information

EUH208: Contains Triazole amine derivative. May produce an allergic reaction.

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

3.2 Mixtures

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

Chemical name	Concentration *	Identifier	REACH Registration No.	Notes
mineral oil	50,00 - <100,00%	265-157-1	01-2119484627-25	
alkarylamine, longchained	1,00 - <5,00%	253-249-4	01-2119488911-28	
Phenol derivative	0,10 - <1,00%	310-154-3	01-2119513207-49	
Diphenylamine	0,10 - <1,00%	204-539-4		
Triazole amine derivative	0,10 - <1,00%	401-280-0	01-0000015116-78	

* 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	Classification
mineral oil	CLP: Asp. Tox. 1;H304
alkarylamine, longchained	CLP: Aquatic Chronic 4;H413
Phenol derivative	CLP: Repr. 2;H361f, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Skin Irrit. 2;H315, Eye Irrit. 2;H319
Diphenylamine	CLP: Acute Tox. 3;H301, Acute Tox. 3;H311, Acute Tox. 3;H331, STOT RE 2;H373, Aquatic Acute 1;H400, Aquatic Chronic 1;H410
Triazole amine derivative	CLP: Skin Corr. 1B;H314, Skin Sens. 1;H317, Aquatic Chronic 2;H411

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

Product name: QUANTUM SYNTA C-4 5W30

General: Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into clothing pockets.

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. The product is not skin irritating.

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

Hazards: No data available.

Treatment: Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, 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: No data available.

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: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers).

Product name: QUANTUM SYNTA C-4 5W30

- 6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).
- 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:** Provide adequate ventilation. Observe good industrial hygiene practices. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.
- 7.2 Conditions for safe storage, including any incompatibilities:** Local regulations concerning handling and storage of waterpolluting products have to be followed. Prevent formation of aerosols. Do not heat up to temperatures close to the flash point.
- 7.3 Specific end use(s):** not applicable
- Storage Class:** 10, Combustible liquids

SECTION 8: Exposure controls/personal protection

- 8.1 Control Parameters**
Occupational Exposure Limits None of the components have assigned exposure limits.

- 8.2 Exposure controls**
Appropriate engineering controls: No data available.

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.

Product name: QUANTUM SYNTA C-4 5W30

Skin protection

Hand Protection: Nitrile butyl rubber (NBR). 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: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. Avoid breathing vapour/ aerosol.

Thermal hazards: No data available.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Brown
Odor:	Characteristic
Odor Threshold:	No data available.
pH:	not applicable
Freezing point:	No data available.
Boiling Point:	not applicable
Flash Point:	200 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)-:	No data available.
Flammability Limit - Lower (%)-:	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	0,85 g/ml (15,00 °C) (DIN 51757)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.

Product name: QUANTUM SYNTA C-4 5W30

Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	69,7 mm ² /s (40 °C)
Explosive properties:	No data available.
Oxidizing properties:	No data available.
9.2 Other information	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal temperature conditions and recommended use.
10.2 Chemical Stability:	No data available.
10.3 Possibility of hazardous reactions:	None under normal conditions.
10.4 Conditions to avoid:	Avoid heat or contamination.
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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:	ATEmix: 66.357 mg/kg
Specified substance(s)	
mineral oil	LD 50 (Rat): > 5.000 mg/kg
alkarylamine, longchained	LD 50 (Rat): > 5.001 mg/kg (OECD 401)
Phenol derivative	LD 50 (Rat): 2.200 mg/kg
Diphenylamine	LD 50 (Rat): > 5.000 mg/kg
Triazole amine derivative	LD 50 (Rat): 2.350 mg/kg

Dermal

Product:	ATEmix: 199.071 mg/kg
Specified substance(s)	
mineral oil	LD 50 (Rabbit): > 2.001 mg/kg
alkarylamine, longchained	LD 50 (Rat): > 2.001 mg/kg (OECD 402)
Phenol derivative	LD 50 (Rabbit): 15.000 mg/kg
Diphenylamine	No data available.
Triazole amine derivative	LD 50 (Rat): > 2.001 mg/kg

Product name: QUANTUM SYNTA C-4 5W30

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

mineral oil	LC 50 (Rat, 4 h): > 2.500 mg/l Vapour
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Repeated dose toxicity

Product:

No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Skin Corrosion/Irritation:

Product:

No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	OECD 404 (Rabbit): Not irritant.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Serious Eye Damage/Eye Irritation:

Product:

No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	OECD 405 (Rabbit): Not irritant.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Product name: QUANTUM SYNTA C-4 5W30

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	(Guinea Pig) No sensitizing effect (guinea pig); OECD 406
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

In vivo

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Reproductive toxicity

Product: No data available.

Product name: QUANTUM SYNTA C-4 5W30

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Other Adverse Effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Product name: QUANTUM SYNTA C-4 5W30

mineral oil	No data available.
alkarylamine, longchained	LC 50 (Fish, 96 h): > 101 mg/l (OECD 203)
Phenol derivative	LC 50 (Fish, 96 h): 40 mg/l
Diphenylamine	No data available.
Triazole amine derivative	LC 50 (Fish, 96 h): 1,1 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	EC 50 (Water Flea, 48 h): > 101 mg/l (OECD 202)
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	EC 50 (Water Flea, 24 h): 9,3 mg/l

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	NOEC (Fish): 25 mg/l
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	EC 50 (Alga, 72 h): > 101 mg/l (OECD 201)
Phenol derivative	EC 50 (Alga, 72 h): 0,15 mg/l
Diphenylamine	No data available.
Triazole amine derivative	EC 50 (Alga, 72 h): > 0,96 mg/l (OECD 201)

Product name: QUANTUM SYNTA C-4 5W30

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	The product is slightly biodegradable.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

12.5 Results of PBT and vPvB assessment: No data available.

mineral oil	No data available.
alkarylamine, longchained	No data available.
Phenol derivative	No data available.
Diphenylamine	No data available.
Triazole amine derivative	No data available.

12.6 Other Adverse Effects: Harmful to aquatic life with long lasting effects.

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

Product name: QUANTUM SYNTA C-4 5W30

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local laws.

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: —

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: —

Product name: QUANTUM SYNTA C-4 5W30

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 MARPOL73/78 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

- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

Training information: Follow training instructions when handling this material.

Product name: QUANTUM SYNTA C-4 5W30

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: 26.08.2015

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.