



# SAFETY DATA SHEET

## Optima C5 VC 0W-20

Product Code: M472

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

1.1 Product Identifier	Optima C5 VC 0W-20
Product Code	M472
1.2 Relevant identified uses of the substance or mixture and uses advised against	Automotive engine crankcase lubricant. Do not use in any other application.
1.3 Company	Exol Lubricants Limited All Saints Road Wednesbury, West Midlands, WS10 9TS
1.4 Emergency Telephone Number	+44 (0) 121 568 6800 (Monday – Friday 08.30 – 17.00 hrs GMT)
1.5 Other Information	Preparation Date: 26/09/18

### SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture	Not classified as hazardous in accordance with CLP (EC 1272/2008) and DPD (1999/45/EC)
2.2 Label Elements	No labelling required
2.3 Other Hazards	None known

### SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures Component	EC No./CAS No.	REACH Reg. No.	GHS Classification	Conc. %
Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based	276-738-4	01-211947889-13	Asp. Tox. 1: H304	80 - <85
Bis(nonylphenyl)amine	253-577-9	01-2119488911-28	Aquatic Chronic 4: H413	0.3 - <1.2
C14-16-18 Alkyl phenol	Mixture	01-2119498288-19	Skin Sens. 1B: H317 Aquatic Chronic 4; H413	0.1 - <1

### SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Unlikely If spray/mist has been inhaled, proceed as follows. Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.
Eyes	Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.
Skin	Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin. Get medical attention if irritation persists after washing.
Ingestion	Do not induce vomiting. In case of ingestion, always assume that aspiration has occurred. Consult a physician (risk of aspiration into the lungs especially if nausea or irritation occurs).
4.2 Most important symptoms and effects, both acute and delayed	Oil mist; may cause eye and respiratory system irritation.
4.3 Indication of immediate medical attention and special treatment needed, if necessary	Treat symptomatically.

### SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media	Foam, dry powder or water fog or carbon dioxide. Water can be used to cool and protect exposed material.
5.2 Specific hazards arising from the substance or mixture	Not known



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**5.3 Advice for fire-fighters** Wear positive pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Avoid breathing mist. Wear adequate protective equipment at all operations.
- 6.2 Environmental precautions** Avoid release to the environment. Stop leak if safe to do so. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air). Risk of soil and ground water contamination.
- 6.3 Methods and material for containment and cleaning up** Immediately start clean-up of the liquid and contaminated soil. Large spills should be collected mechanically (remove by pumping) for disposal. Small spillages: Absorb spillage with sand or other inert absorbent.
- 6.4 Reference to other sections** Personal protective equipment: See section 8

## SECTION 7 HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharges. Use only in well-ventilated areas. Avoid inhalation of vapours and contact with skin and eyes. Use personal protective equipment and/or local ventilation when needed. Do not eat, drink or smoke when using this product. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
- 7.2 Conditions for safe storage, including any incompatibilities** Store in accordance with local regulations. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Take precautions against leakage by constructing collecting pools and sewerage systems as well as by surfacing the loading and unloading stations. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from light. Suitable container materials: Stainless steel.
- 7.3 Specific end use(s)** See section 1

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- Occupational exposure limits** Oil mist: 5 mg/m<sup>3</sup> (8h) HTP 2014/FIN.  
5 mg/m<sup>3</sup>, TWA PEL (OSHA) 5 mg/m<sup>3</sup>, TLV-TWA (ACGIH) 10 mg/m<sup>3</sup>, TLV-STEL (ACGIH).  
DNELs – No information available  
PNECs – No information available
- 8.2 Exposure controls** Ensure adequate ventilation. Use personal protective equipment and/or local ventilation when needed
- Hand Protection:** Wear protective gloves. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Nitrile rubber. Change protective gloves regularly. Protective gloves according to standards EN 420 and EN 374.
- Eye Protection:** Tight-fitting safety glasses
- Skin Protection:** Protective clothing when needed. Wear anti-static protective clothing if there is a risk of ignition from static electricity
- Respiratory Protection:** Oil mist: Combination filter, type A2/P2. Filter device could be used maximum 2 hours at a time. Filter devices must not be used in conditions where the oxygen level is low (< 19 vol.-%). At high concentrations a breathing apparatus must be used (self-contained or fresh air hose breathing apparatus). Filter must be changed often enough. Respirators according to standards EN 140 and EN 141.
- Environmental exposure Controls:** Take precautions against leakage by constructing collecting pools and sewerage systems as well as by surfacing the loading and unloading stations.



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## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Does not constitute a specification

Typical Values	Units	Optima C5 VC 0W-20
Grades:		Optima C5 VC 0W-20
Appearance		Amber Liquid
Odour		Mild
Odour Threshold		No data available
pH		Not applicable
Pour point/range	°C	-48
Initial boiling point and range	°C	No data available
Flash point (COC)	°C	>200
Flammability		Not flammable
Upper/lower flammability or explosive limits		Not applicable
Vapour pressure	kPa (0.1 mm Hg)	No data available
Relative density	kg/m <sup>3</sup>	0.850 @ 20°C
Solubility - water		Insoluble
Partition coefficient n-octanol/water	Log Pow	Not applicable
Autoignition temperature		No data available
Decomposition temperature		No data available
Viscosity	mm <sup>2</sup> /s	47.0 @ 40°C
	mm <sup>2</sup> /s	9.0 @ 100°C
Evaporation rate		Not applicable
Vapour density		Not applicable
Explosive properties		Not applicable
Oxidising properties		None

9.2 Other Information None

## SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity	There are no known reactivity hazards associated with this product
10.2 Chemical stability	Stable at normal ambient temperatures and when used as recommended
10.3 Possibility of hazardous reactions	No potentially hazardous reactions known
10.4 Conditions to avoid	Keep away from fire, sparks and heated surfaces.
10.5 Incompatible materials	Incompatible with strong acids and oxidising agents.
10.6 Hazardous decomposition products	No hazardous decomposition products are known.

## SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	Very low toxicity LD50/oral/rat > 5000 mg/kg (OECD 401) LD50/dermal/rabbit > 2000 mg/kg (OECD 402) LC50/inhalation/4h/rat =>5,53 mg/L (OECD 403)
Corrosivity/Irritation	Not classified (OECD 404, 405). Oil mist may irritate the eyes and the respiratory tract. Prolonged or repeated skin contact may irritate the skin and produce dermatitis.
Sensitisation	Not a skin sensitiser. (OECD 406)
Repeated-dose Toxicity	No known effect. (OECD 408, 410, 411, 412, 453)
Mutagenicity	Genotoxicity test (in vitro and in vivo) have been negative. (OECD 471, 473, 474, 476)
Carcinogenicity	Not classifiable as a human carcinogen. (OECD451, 453)
Reproductive Toxicity	Not toxicity to reproduction. (OECD 421) Damage to foetus not classifiable. (OECD 414)



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## SECTION 12 ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	<i>Very low toxicity</i> <i>Acute aquatic toxicity</i> Fish: LL50/96h > 100 mg/L; NOEL/96h >= 100 mg/L (OECD 203) Crustacean: EL50/24-48h; NOEL/48-96h; LL50/24-96h > 10 000mg/L (OECD 202) Alga: NOEL/72h >= 100 mg/L (OECD 201) <i>Chronic aquatic toxicity:</i> Crustacean: NOEL/21d = 10 mg/L (OECD 211) <i>Very low toxicity to other organisms.</i>
<b>12.2 Persistence and Degradability</b>	Not readily degradable (OECD 301B)
<b>12.3 Bioaccumulative Potential</b>	Base oil hydrocarbons are possibly accumulative (log Kow >6)
<b>12.4 Mobility in Soil</b>	The product is insoluble in water and mainly not volatile. Product can penetrate soil until reaching the surface of ground water. Degradation occurs extremely slowly under anaerobic conditions. Base oil hydrocarbons can be adsorbed onto organic material in soil or sediment (log Kow > 6).
<b>12.5 Results of PBT and vPvB Assessment</b>	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB). (Anthracene < 0.1%).
<b>12.6 Other Adverse Effects</b>	Information given is based on data on the components and the ecotoxicology of similar products.

## SECTION 13 DISPOSAL CONSIDERATIONS

<b>13.1 Waste Treatment Methods</b>	Product waste is hazardous waste. It should be treated according to national regulations and local authorities' advice.
<b>13.2 Waste from Residues / Unused Products</b>	Used oils may contain accumulated contaminants dangerous to health and the environment. Empty containers may contain combustible product residues. Empty containers should be taken for local recycling or waste disposal.

## SECTION 14 TRANSPORT INFORMATION

<b>14.1 UN Number</b>	Not Classified
<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>	Environmentally hazardous substance/marine pollutant - No.
<b>14.6 Special Precautions for User</b>	-
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	-

## SECTION 15 REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010. 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 (as amended).
<b>15.2 Chemical Safety Assessment</b>	A chemical safety assessment has been carried out.

## SECTION 16 OTHER INFORMATION

Second Issue September 2018  
First Issue July 2016: Changed name

### Full text of classification data in sections 2 and 3

Asp. Tox. 1; H304                      May be fatal if swallowed and enters airways



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Skin Sens. 1B; H317  
Aquatic Chronic 4; H413

May cause an allergic skin reaction  
May cause long lasting harmful effects to aquatic life