



# SAFETY DATA SHEET

## Optima C4 LSR 5W-30

Product Code: M414

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

1.1 Product Identifier Product Code	Optima C4 LSR 5W-30 M414
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	<b>CLP Classification:</b> Not classified as hazardous. Not classified as dangerous for the Environment
<i>See section 16 for full text of H and R phrases</i>	
2.2 Label Elements	<b>Labelling in accordance with CLP</b> None required
2.3 Other Hazards	PBT: This substance is not identified as a PBT substance.

### SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures Ingredients	EC No.	REACH Reg. No.	GHS Classification	Conc. %
Phenol. Dodecyl-, sulfurized, calcium salts	272-233-8	Not Available	Aquatic Chronic 4; H413 Eye Irrit. 2; H319	<1.5
Reaction products of Benzeneamine, N-phenyl- with nonene (branched)	253-249-4	05-2114603735-51	Aquatic Chronic 4; H413	<1.5
Dodecylphenol, mixed isomers (branched)	310-154-3	01-2119513207-49	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Irrit. 2; H319 Repr. 2; H361 Skin Irrit. 2; H315	<0.2%
1H-1,2,4-Triazole-1-methanamine, N,N-bis(2-ethylhexyl)-	401-280-0	Not Available	Aquatic Chronic 2; H411 Eye Dam. 1; H318 Skin Corr. 1B; H314 Skin Sens. 1; H317	<0.2%
Diphenylamine	204-539-4	Not Available	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 STOT RE 2; H373	<0.15%



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## SECTION 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

**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.

**Ingestion** If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.

**Inhalation** If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.

**4.2 Most important symptoms and effects, both acute and delayed** Skin Contact: There may be irritation at the site of contact.  
Eye Contact: There may be irritation and redness.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary** Treatment should in general be symptomatic and directed to relieving any effects.

## SECTION 5 FIRE-FIGHTING MEASURES

**5.1 Extinguishing media** Use CO<sub>2</sub>, foam, dry powder. DO NOT USE water jets.

**5.2 Specific hazards arising from the substance or mixture** Large surface areas exposed to air (e.g. product soaked rags, paper or absorbed spillage) may be easily ignited and should be cleared up at once.

**5.3 Advice for fire-fighters** Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

Water may be used to cool nearby heat exposed areas/objects/packages.

Avoid spraying water directly into storage containers because of the danger of boil-over.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures** See Section 8 for protective equipment.  
Soak liquid in absorbent material for disposal. Wash down floor area as spillage may be slippery. Larger spillage should be contained with sand or earth and collected in salvage container for disposal.

**6.2 Environmental precautions** Protect drains from potential spills to minimise contamination. Do not wash product into drainage system.

In the case of large spills contact the appropriate authorities. In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies.

**6.3 Methods and material for containment and cleaning up** Absorb into dry earth or sand. Protect drains using drain covers. Dispose of as hazardous waste.

**6.4 Reference to other sections** Personal protective equipment: See section 8

## SECTION 7 HANDLING AND STORAGE

**7.1 Precautions for safe handling** Empty containers contain residue which may exhibit hazards of product. Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product. Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times. Wash hands thoroughly after contact. Use disposable cloths and discard when soiled. Do not put soiled cloths into pockets.

**7.2 Conditions for safe storage, including any incompatibilities** Do not store in open or unlabelled containers. Store away from strong oxidising agents or combustible material. Take precautionary measures to prevent product spills into drains, the ground or waters.

**7.3 Specific end use(s)** See section 1.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Country  
EU

Substance  
Oil Mist

Long Term (8 Hours TWA)  
5 mg/m<sup>3</sup>

Short Term (15 Mins)  
-



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## 8.2 Exposure controls

**Occupational Exposure Controls:** Ensure adequate ventilation. Use personal protective equipment and/or local ventilation when needed. Avoid skin contact and inhalation of oil mist. Thoroughly clean contaminated skin and change dirty clothing and equipment.

**Respiratory Protection:** Oil mist respirator (combined particle and organic vapour filter, type A2/P2) where there is a risk of generating oil mist.

**Hand Protection:** Protective gloves, PVC, nitrile rubber. Change protective gloves regularly.

**Eye Protection:** Safety goggles if there is a risk of splashing.

**Skin Protection:** Protective clothing when needed.

**Environmental Exposure Controls:** Take precautionary measures to prevent product spills into drains, the ground or waters.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Does not constitute a specification

#### Typical Values

#### Grades:

Optima C4 LSR 5W-30

	Units	
Appearance		Amber fluid
Odour		Mild
Odour Threshold		No data available
pH		Not applicable
Relative density	kg/m <sup>3</sup>	No data available
Solubility - water		Insoluble
Pour Point	°C	-33
Initial boiling point and range	°C	No data available
Flash point (PMCC)	°C	210
Flammability		No data available
Upper/lower flammability or explosive limits		No data available
Vapour pressure	kPa (0.1 mm Hg)	Not applicable
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	68.1 @ 40°C
	mm <sup>2</sup> /s	11.6 @ 100°C
Evaporation rate		Not applicable
Vapour density		Not applicable
Explosive properties		None
Oxidising properties		None

### 9.2 Other Information

None

## SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity	Stable at ambient temperatures.
10.2 Chemical stability	Stable under normal conditions of use
10.3 Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
10.4 Conditions to avoid	Avoid overheating
10.5 Incompatible materials	Incompatible with strong oxidising agents.
10.6 Hazardous decomposition products	Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide and hydrogen sulphide and oxides of sulphur and phosphorus.

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

- Oral No toxic components present at levels to cause classification.
- Inhalation No toxic components present at levels to cause classification.



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<b>Corrosivity/Irritation</b>	- <b>Dermal</b>	No toxic components present at levels to cause classification.
	- <b>Eye</b>	No components present that are classified as eye irritants.
	- <b>Skin</b>	No components present that are classified as skin irritants.
	- <b>Respiratory Tract</b>	No components present that are classified as respiratory irritants.
<b>Sensitisation</b>	- <b>Skin</b>	No evidence of sensitisation effects.
	- <b>Respiratory</b>	No evidence of sensitisation effects.
<b>Repeated-dose Toxicity</b>		No data available.
<b>Mutagenicity</b>		No evidence of mutagenicity.
<b>Carcinogenicity</b>		No evidence of carcinogenicity.
<b>Reproductive Toxicity</b>		No evidence of reproductive toxicity.

## SECTION 12 ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.
<b>12.2 Persistence and Degradability</b>	Expected to be inherently biodegradable.
<b>12.3 Bioaccumulative Potential</b>	No evidence to suggest bioaccumulation will occur.
<b>12.4 Mobility in Soil</b>	Accidental spillage may lead to penetration in soil and groundwater.
<b>12.5 Results of PBT and vPvB Assessment</b>	This substance is not identified as a PBT substance.
<b>12.6 Other Adverse Effects</b>	None.

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

Send to registered waste disposal site using services of a registered waste disposal contractor. Disposal of packaging: Dispose of as normal industrial waste. **NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## SECTION 14 TRANSPORT INFORMATION

Not classified as dangerous goods for carriage under ADR/RID/AND/IMDG/ICAO/IATA regulations

<b>14.1 UN Number</b>	-
<b>14.2 UN Proper Shipping Name</b>	-
<b>14.3 Transport Hazard Class</b>	-
<b>14.4 Packing Group</b>	-
<b>14.5 Environmental Hazards</b>	Not classified as an Environmentally hazardous substance/Marine Pollutant
<b>14.6 Special Precautions for User</b>	See section 8 for safe handling
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable to packaged goods

## SECTION 15 REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	Supply regulations: DPD: Dangerous Preparations Directive; GHS: Globally Harmonised System of classification and labelling of chemicals; CLP: Classification, Labelling and Packaging regulations. Transport regulations: CDG: Carriage of Dangerous Goods regulations; ADR/RID/IMDG/ICAO/IATA regulations.
<b>15.2 Chemical Safety Assessment</b>	A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## SECTION 16 OTHER INFORMATION

Fourth Issue September 2018  
Third Issue March 2015: Changed name  
Second Issue March 2013: Changed to new format.  
Previous issue August 2011: Changed to Reach version 2 format.

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

Aquatic Acute 1; H400	Very toxic to aquatic life
Aquatic Chronic 1; H410	Very toxic to aquatic life with long lasting effects
Aquatic Chronic 2; H411	Toxic to aquatic life with long lasting effects



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Aquatic Chronic 4; H413  
Eye Irrit. 2; H319  
Repr. 2; H361  
Skin Irrit. 2; H315  
Acute Tox. 3; H301  
Acute Tox. 3; H311  
Acute Tox. 3; H331  
STOT RE 2; H373  
Eye Dam. 1; H318  
Skin Corr. 1B; H314  
Skin Sens. 1; H317

May cause long lasting harmful effects to aquatic life  
Causes serious eye irritation  
Suspected of damaging fertility or the unborn child  
Causes skin irritation  
Toxic if swallowed  
Toxic in contact with skin  
Toxic if inhaled  
Causes damage to organs through prolonged or repeated exposure  
Causes serious eye damage  
Causes severe skin burns and eye damage  
May cause an allergic skin reaction