



SAFETY DATA SHEET

Optima C1 LSZ 5W-30

Product Code: M413

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

1.1 Product Identifier	Optima C1 LSZ 5W-30
Product Code	M413
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: 26/09/2018

SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture	CLP Classification: 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	Labelling in accordance with CLP 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
	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%
	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%

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.



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- 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 CO₂, 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

- | Control parameters | Substance | Long Term (8 Hours TWA) | Short Term (15 Mins) |
|--------------------|-----------|-------------------------|----------------------|
| Country
EU | Oil Mist | 5 mg/m ³ | - |
- 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.



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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 Grades:

	Units	Optima C1 LSZ 5W-30
Appearance		Amber fluid
Odour		Mild
Odour Threshold		No data available
pH		Not applicable
Relative density		No data available
Solubility - water	kg/m ³	Insoluble
Pour Point	°C	-39
Initial boiling point and range	°C	No data available
Flash point (PMCC)	°C	234
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 ² /s	53.4 @ 40°C
	mm ² /s	9.84 @ 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.
-Dermal	No toxic components present at levels to cause classification.
Corrosivity/Irritation	
-Eye	No components present that are classified as eye irritants.
-Skin	No components present that are classified as skin irritants.
-Respiratory Tract	No components present that are classified as respiratory irritants.
Sensitisation	
-Skin	No evidence of sensitisation effects.
-Respiratory	No evidence of sensitisation effects.
Repeated-dose Toxicity	No data available.
Mutagenicity	No evidence of mutagenicity.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive Toxicity	No evidence of reproductive toxicity.



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SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.
12.2 Persistence and Degradability	Expected to be inherently biodegradable.
12.3 Bioaccumulative Potential	No evidence to suggest bioaccumulation will occur.
12.4 Mobility in Soil	Accidental spillage may lead to penetration in soil and groundwater.
12.5 Results of PBT and vPvB Assessment	This substance is not identified as a PBT substance.
12.6 Other Adverse Effects	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

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

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	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.
15.2 Chemical Safety Assessment	A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16 OTHER INFORMATION

Fourth Issue
Third Issue March 2015: Changed name
Second Issue March 2013: Changed to new format.
Previous issue July 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 4; H413	May cause long lasting harmful effects to aquatic life
Eye Irrit. 2; H319	Causes serious eye irritation
Repr. 2; H361	Suspected of damaging fertility or the unborn child
Skin Irrit. 2; H315	Causes skin irritation
Acute Tox. 3; H301	Toxic if swallowed
Acute Tox. 3; H311	Toxic in contact with skin
Acute Tox. 3; H331	Toxic if inhaled
STOT RE 2; H373	Causes damage to organs through prolonged or repeated exposure