

Material Safety Data Sheet

According to 1907/2006/EC, Article 31



Printing Date: 09 June 2020

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1 Identification of the substance/preparation and of the company/undertaking

Trade name: **linecube Engine Oil 20W-20**

Relevant identified uses of the substance or mixture and uses advised against:

- Use of the substance/mixture: Automotive engine crankcase lubricant
- Use advised against: Do not use in any other application

Supplier:

Online Lubricants Ltd.
Unit 20, The IO Centre, Barking, London IG11 0DR
UK Tel. +44 (0) 208 507 0123

In case of emergency: +44 (0) 208 507 0123

2 Composition / Information on ingredients

2.1 Mixtures

Ingredients	EC No.	REACH Reg No.	GHS Classification	DSD Classification	Conc. %
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr)esters, zinc salts	283-392-8	01-2119493626-26	Aquatic Chronic 2; H411 Eye Dam. 1; H318 Skin Irrit. 2; H315	Xi, N R38, R41, R51/53	<1%

3 Hazards identification

3.1 Classification of the substance or mixture

CLP Classification:
Not classified as hazardous.
Not classified as dangerous for the Environment

See section 16 for full text of H and R phrases

3.2 Label Elements

Classification to DPD (1999/45/EC) and CHIP

Not classified as hazardous
Labelling in accordance with CLP

None required

Labelling in accordance with CHIP

None Required

3.3 Other Hazards

PBT: This substance is not identified as a PBT substance.

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.

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Inhalation If inhalation of mists, fumes or vapor 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 Treatment should in general be symptomatic and directed to relieving any effects.

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** 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-

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
- 6.3 Methods and material for containment and cleaning** 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

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
- 7.2 Conditions for safe storage, including any** Do not store in open or unlabeled containers. Store away from strong oxidizing 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.

8 Exposure controls/personal protection

8.1 Control parameters

Country	Substance	Long Term (8 Hours TWA)	Short Term (15
EU	Oil Mist	5 mg/m3	-

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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.

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Does not constitute a specification

Typical Values

Grades:

Units

Taurus 20W/20

Appearance

Amber fluid

Odour

Mild

Odour Threshold

No data available

pH

Not applicable

Relative density

kg/m³

0.886 @ 20°C

Solubility - water

Insoluble

Pour Point

°C

No data available

Initial boiling point and range

°C

No data available

Flash point (PMCC)

°C

220

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

mm²/s

59.02 @ 40°C

Evaporation rate

mm²/s

8.19 @ 100°C

Vapour density

Not applicable

Explosive properties

Not applicable

Oxidising properties

None

9.2 Other Information

None

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 Avoid overheating

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.

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11 Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity

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

12 Ecological Information

- 12.1 Toxicity Spills may form a film on water surfaces causing physical damage to organisms. Oxygen
- 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.

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.

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 Pollutant Not classified as an Environmentally hazardous substance/Marine
- 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

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: A chemical safety assessment has not been carried out for the substance or the mixture by
- 15.2 Chemical Safety Assessment

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16 Other Information

Full text of classification data in sections 2 and 3

Aquatic Chronic 2; H411	Hazardous to the aquatic environment, long-term hazard, Hazard Category 1; Toxic to aquatic life with long lasting effects
Eye Dam. 1; H318	Serious eye damage/eye irritation, Hazard Category 1; Causes serious eye damage
Skin Irrit. 2; H315	Skin corrosion/irritation, Hazard Category 2; Causes skin irritation
Xi;R38	Irritating to skin
Xi R41	Risk of serious damage to the eyes
N;R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment