



Optima Marine 2 Stroke

Product Code: M298

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

Do not use in any other application.

1.1 Product Identifier Optima Marine 2 Stoke

Product Code M298
Relevant identified uses of the Lubricant for marine two-stroke engines requiring TC-W3 quality.

1.2 Relevant identified uses of the substance or mixture and uses

advised against

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 Not classified as hazardous in accordance with CLP (EC 1272/2008) and DPD (1999/45/EC)

substance or mixture
2 Label Elements No labelling required

2.3 Other Hazards Not considered to be carcinogenic under IARC. All of the oils in this product have been

demonstrated to contain less than 3% extractables by the IP 346 DMSO test.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2	Mixtures	
.)./	IVIIXIIIIES	١

Component	EC No.	REACH Reg. No.	GHS Classification	Conc. %
Distillates (petroleum), hydrotreated light	265-149-8	01-2119484819-18	Asp. Tox. 1; H304	10-15
Long chain alkyl polyamide	Polymer	Not Available	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	<9
Solvent naphtha (petroleum), heavy aromatic	265-198-5	Not Available	Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411 EUH066	<0.5

Other Information

It is understood from toxicological information given for the components present that at the treatment rate used in the finished oil; the material is not expected to cause allergic skin reactions.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

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.

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.

4.2 Most important symptoms and effects,

No ill effects known

both acute and delayed

Eye contact: immediately wash out with plenty of water

4.3 Indication of immediate medical attention and special treatment needed, if

necessary





FIRE-FIGHTING MEASURES SECTION 5

Extinguishing media Foam, dry powder or water fog. Water can be used to cool and protect exposed material. 5.1

Specific hazards arising from the substance or mixture

Reactivity, Section 10 of this Safety Data Sheet.

Advice for fire-fighters Wear self-contained breathing apparatus. Water may cause splattering.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency

procedures

Immediately evacuate all personnel from danger area. Wear Personal Protective Equipment. Eliminate all sources of heat, sparks, pilot lights, static electricity and open flames. Spilled material may make surfaces slippery.

Toxic fumes may be evolved on burning or exposure to heat. See Stability and

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. Absorb into dry earth or sand. Protect drains using drain covers. Dispose of as

Methods and material for containment and cleaning up

hazardous waste. Reference to other sections

Personal protective equipment: See section 8

HANDLING AND STORAGE **SECTION 7**

7.1 Precautions for safe handling 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

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.

Use a suitable barrier cream at regular intervals. Keep out of the reach of children.

Conditions for safe storage,

including any incompatibilities Store under cover away from heat and sources of ignition.

Intended for use as a lubricant for marine two-stroke engines requiring TC-W3 quality. Specific end use(s)

EXPOSURE CONTROLS/PERSONAL PROTECTION SECTION 8

Control parameters

Substance Long Term (8 Hours TWA) **Short Term (15 Mins)** Country

None

Use local exhaust ventilation to control mists or vapours. **Exposure controls** 8.2

Hand Protection: Nitrile or neoprene protective gloves

Eye Protection: Safety glasses Skin Protection: Protective clothing

Hygiene Measures: Wash thoroughly after handling this product

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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

Typical Values

Grades: Optima Marine 2 Stroke Units

Appearance Blue Liquid Odour Oily

Odour Threshold No data available

Ha Not applicable Pour point/range -28

°C Initial boiling point and range No data available Flash point (COC) 120

Flammability Not flammable





Upper/lower flammability or explosive limits

Not applicable Vapour pressure kPa (0.1 mm Hg) No data available Relative density 0.890 @ 20°C kg/m³

Solubility - water Insoluble - Fat/solvents Soluble

Partition coefficient n-octanol/water Log Pow Not applicable

Autoignition temperature No data available **Decomposition temperature** No data available

Viscosity mm²/s 147.97 @ 40°C 17.89 @ 100°C mm²/s **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

No dangerous reactions known 10.1 Reactivity

Stable under normal conditions of use 10.2 Chemical stability

None known 10.3 Possibility of hazardous

reactions

Avoid overheating.

10.4 Conditions to avoid

Avoid contact with strong oxidising agents 10.5 Incompatible materials

Thermal decomposition products will vary with conditions. Incomplete combustion will generate 10.6 Hazardous decomposition products

smoke, carbon dioxide and hazardous gases, including carbon monoxide.

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.

No components present that are classified as skin irritants but may cause skin irritation due to de-fatting - Skin

effect on skin.

-Respiratory Tract No components present that are classified as respiratory irritants.

Sensitisation

No evidence of sensitisation effects. -Skin Respiratory No evidence of sensitisation effects.

Repeated-dose Toxicity No data available.

Mutagenicity No evidence of mutagenicity. Carcinogenicity No evidence of carcinogenicity. **Reproductive Toxicty** No evidence of reproductive toxicity.

ECOLOGICAL INFORMATION SECTION 12

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

transfer could also be impaired

Not biodegradable. 12.2 Persistence and Degradability

There is no evidence to suggest bioaccumulation will occur. 12.3 Bioaccumulative Potential

Spillages may penetrate the soil causing ground water contamination. Non-volatile. 12.4 Mobility in Soil

No PBT or vPvB chemicals present. 12.5 Results of PBT and vPvB

Assessment

None known. 12.6 Other Adverse Effects





SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Where possible, arrange for product to be recycled.

Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations. Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

SECTION 14 TRANSPORT INFORMATION

Not classified as hazardous for transport (ADR, RID, UN, IMO, and IATA/ICAO).

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. No formal chemical safety assessment has been carried out.

15.2 Chemical Safety Assessment

SECTION 16 OTHER INFORMATION

Fifth Issue September 2018: Changed name

Fourth Issue February 2017: Changed to new format. Third version March 2015: Changed Product Name Second Issue October 2013: Changed to new format.

First version March 2004: Changed to Reach version 2 format

Full text of classification data in sections 2 and 3

Asp. Tox. 1; H304 Aspiration hazard, Hazard Category 1; May be fatal if swallowed and enters airways Eye Irrit. 2; H319 Serious eye damage/irritation, Hazard Category 2; Causes serious eye irritation

Skin Irrit. 2; H315 Skin corrosion/irritation, Hazard Category 2; Causes skin irritation

Skin Sens. 1; H317 Sensitisation, Ski, Hazard Category 1; May cause an allergic skin reaction

STOT SE 3; H336 Specific target organ toxicity, single exposure: Narcotic effects, Hazard Category 3; May cause

drowsiness or dizziness

Aquatic Chronic 2; H411 Hazardous to the aquatic environment, long-term hazard, Hazard Category 2; Toxic to aquatic life

with long lasting effects

Aquatic Chronic 3; H412 Hazardous to the aquatic environment, long-term hazard, Hazard Category 3; Harmful to aquatic life

with long lasting effects

EUH066 Repeated exposure may cause skin dryness or cracking