



EXCELLENCE IN LUBRICANTS

SAFETY DATA SHEET

Exolmarine Stern Tube Oil 680



EXOL LUBRICANTS LIMITED

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Exolmarine Stern Tube Oil 680

Product Code: L299

SECTION 1	IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF COMPANY/UNDERTAKING
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1.1 Product Identifier	Exolmarine Stern Tube Oil 680
Product Code	L299
1.2 Relevant identified uses of the substance or mixture and uses advised against	Heavy duty lubricant for stern tube bearings on vessels and to seal against water entry. 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: 26/10/2016

SECTION 2	HAZARD IDENTIFICATION
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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	This product does not contain any PBT or vPvB substances

SECTION 3	COMPOSITION/ INFORMATION ON INGREDIENTS
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3.2 Mixtures					
Hazardous Ingredients	EC No.	REACH Reg. No.	GHS Classification	Conc. %	
None to Declare					

SECTION 4	FIRST AID MEASURES
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4.1 Description of first aid measures	
Inhalation	Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
Eyes	Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Remove any contact lenses and open eyes wide apart. Rinse with water. Obtain medical advice if any pain or redness develops or persists.
Skin	Remove contaminated clothing immediately and wash skin with soap and water. Rinse with water. Contact physician if discomfort continues.
Ingestion	Get medical attention immediately! Do not induce vomiting. If vomiting occurs, the head should be kept low so that the stomach vomit doesn't enter the lungs.
4.2 Most important symptoms and effects, both acute and delayed	Skin – Prolonged skin contact may cause redness and irritation Eye – May cause temporary eye irritation
4.3 Indication of immediate medical attention and special treatment needed, if necessary	No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5	FIRE-FIGHTING MEASURES
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5.1 Extinguishing media	Extinguish with alcohol resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.
5.2 Specific hazards arising from the substance or mixture	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Vapours are heavier than air and may spread near ground to sources of ignition. Fire creates: Carbon Monoxide (CO), Carbon Dioxide (CO ₂), Oxides of Sulphur (SO _x)



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5.3 Advice for fire-fighters

Water spray should be used to cool containers

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Wear Personal Protective Equipment as described in section 8. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.
- 6.2 Environmental precautions** Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environment Agency or other appropriate regulatory body.
- 6.3 Methods and material for containment and cleaning up** Absorb spillage with non-combustible, absorbent material. Collect in containers and seal securely. Allow residues to evaporate. Do not flush away residues with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
- 6.4 Reference to other sections** Personal protective equipment: See section 8

SECTION 7 HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Eliminate all sources of ignition. Avoid inhalation of vapours. Provide good ventilation.
- 7.2 Conditions for safe storage, including any incompatibilities** Keep away from heat, sparks and open flame. Take precautionary measures against static discharges. Store in tightly closed original container in a dry, cool and well-ventilated place.
- 7.3 Specific end use(s)** The intended uses for this product are detailed in Section 1.2

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No exposure limits noted for ingredients

8.2 Exposure controls

- Engineering Measures** Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.
- Respiratory Equipment** If ventilation is insufficient, suitable respiratory protection must be provided. Chemical respirator with organic vapour cartridge.
- Hand Protection** Use suitable protective gloves if risk of skin contact. Use protective gloves made of: Nitrile, Neoprene, Polyvinyl Chloride (PVC)
- Eye Protection** Goggles/face shield are recommended
- Other Protection** Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact
- Hygiene Measures** Wash hands after handling. Use appropriate skin cream to prevent drying of skin. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Typical Values

Grades:

	Units	Exolmarine Stern Tube Oil 680
Appearance		Brown Liquid
Odour		Characteristic
Odour Threshold		No data available
pH		Not applicable
Pour point/range	°C	-5
Initial boiling point and range	°C	>316
Relative density		0.928 @ 15°C
Vapour density (air=1)		No data available
Vapour pressure	kPa (0.1 mm Hg)	No data available



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Viscosity	mm ² /s	680 @ 40°C
Flash point	mm ² /s	37.3 @ 100°C
Flammability	°C	>200
Upper/lower flammability or explosive limits		No data available
Solubility		No data available
Partition coefficient n-octanol/water		Insoluble in water
Autoignition temperature		Not applicable
Decomposition temperature		No data available
Evaporation rate		No data available
Explosive properties		Not applicable
Oxidising properties		Not applicable
		None

9.2 Other Information None

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity	Reacts with strong oxidising agents
10.2 Chemical stability	Stable under normal conditions of use
10.3 Possibility of hazardous reactions	Will not polymerise
10.4 Conditions to avoid	Avoid heat, flames and other sources of ignition
10.5 Incompatible materials	Avoid contact with strong oxidising agents
10.6 Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Sulphurous gases (SO _x). Aldehydes.

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 May cause temporary eye irritation.
- Skin No components present that are classified as skin irritants. Repeated exposure may cause skin dryness and cracking.
- Respiratory Tract May cause irritation to the respiratory system.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a damaging effect on the environment.
12.2 Persistence and Degradability	The product is not readily biodegradable.
12.3 Bioaccumulative Potential	The product contains potentially bioaccumulating substances.
12.4 Mobility in Soil	The product contains substances which are insoluble in water and which sediment in water systems.
12.5 Results of PBT and vPvB Assessment	No PBT or vPvB chemicals present.
12.6 Other Adverse Effects	None known.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Dispose of waste and residues in accordance with local authority requirements.



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SECTION 14	TRANSPORT INFORMATION
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Not classified as hazardous for transport (ADR, RID, UN, IMDG, IMO, and IATA/ICAO).

SECTION 15	REGULATORY INFORMATION
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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. A chemical safety assessment has been carried out.

15.2 Chemical Safety Assessment

SECTION 16	OTHER INFORMATION
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First Issue