

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name or designation of the mixture** Yamalube 2M Engine Oil TC-W3 RL (For Outboard)

**Registration number** -

**Synonyms** None.

**SDS number** B4022

**Issue date** 22-March-2013

**Version number** 01

**Revision date** -

**Supersedes date** -

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Engine oil.

**Uses advised against** None known.

### 1.3. Details of the supplier of the safety data sheet

**Supplier** YAMAHA MOTOR EUROPE N.V.

**Address** Koolhovenlaan 101  
1119 NC Schipol-Rijk, The Netherlands

**Telephone** +31 (0) 20 654 6000

**Fax** +31 (0) 20 654 6888

**e-mail** P&Acustomersupport@yamaha-motor.nl

**1.4 Emergency telephone number** +31 (0) 20 654 6000

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The product has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** Xn;R65, R43, R52/53

The full text for all R-phrases is displayed in section 16.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Health hazards

Skin sensitisation Category 1

H317 - May cause an allergic skin reaction.

Aspiration hazard Category 1

H304 - May be fatal if swallowed and enters airways.

##### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard Category 3

H412 - Harmful to aquatic life with long lasting effects.

### Hazard summary

**Physical hazards** Not classified for physical hazards.

**Health hazards** May cause sensitisation by skin contact. Harmful: may cause lung damage if swallowed.

**Environmental hazards** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Specific hazards** Swallowing or vomiting of the liquid may result in aspiration into the lungs. Vapours may form explosive mixtures with air. The harmful effects may increase in used oil.

**Main symptoms** Shortness of breath. Dermatitis.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Long chain alkyl polyamide

**Hazard pictograms****Signal word**

Danger

**Hazard statements**

H317 - May cause an allergic skin reaction.  
 H304 - May be fatal if swallowed and enters airways.  
 H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P273 - Avoid release to the environment.

**Response**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
 P332 + P313 - If skin irritation occurs: Get medical advice/attention.  
 P363 - Wash contaminated clothing before reuse.  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.  
 P331 - Do NOT induce vomiting.

**Storage**

Not available.

**Disposal**

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information**

Not applicable.

**2.3. Other hazards**

Not a PBT or vPvB substance or mixture.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 453/2010.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Lubricating oils	70 - < 80	74869-22-0 278-012-2	-	649-484-00-0	
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				
Hydrocarbons,C11-C14,n-alkanes ,isoalkanes,cyclics,<2%aromatics	10 - < 20	- 918-481-9	-	-	
<b>Classification:</b>	<b>DSD:</b> Xn;R65				
	<b>CLP:</b> Asp. Tox. 1;H304				
Long chain alkyl polyamide	5 - < 10	Proprietary	-	-	
<b>Classification:</b>	<b>DSD:</b> Xi;R36/38, R43, N;R51/53				
	<b>CLP:</b> Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, Aquatic Chronic 2;H411				

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

**Composition comments**

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.  
 Lubricating oil: Contains less than 3 % DMSO extract as measured by IP 346.

**SECTION 4: First aid measures****General information**

First aid personnel must be aware of own risk during rescue.

**4.1. Description of first aid measures****Inhalation**

Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.

**Skin contact**

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.  
 Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

**Eye contact**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention if irritation develops and persists.

## Ingestion

Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

Shortness of breath. Dermatitis.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours after exposure.

## SECTION 5: Firefighting measures

### General fire hazards

Will burn if involved in a fire.

### 5.1. Extinguishing media

#### Suitable extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog.

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

By heating and fire, harmful vapours/gases may be formed.

### 5.3. Advice for firefighters

#### Special protective equipment for firefighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### Special fire fighting procedures

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do it without risk. Cool containers exposed to flames with water until well after the fire is out.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Stay upwind. Eliminate all sources of ignition. Avoid inhalation of vapours and spray mists. Avoid contact with skin and eyes. Wear appropriate personal protective equipment. For personal protection, see section 8 of the SDS.

#### For emergency responders

Keep unnecessary personnel away.

### 6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

### 6.3. Methods and material for containment and cleaning up

Remove sources of ignition. Stop the flow of material, if this is without risk. Absorb spillage with non-combustible, absorbent material. In case of spills, beware of slippery floors and surfaces.

### 6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

The product is combustible, and heating may generate vapours which may form explosive vapour/air mixtures. Provide adequate ventilation. Avoid inhalation of vapours and spray mists. Avoid contact with skin and eyes. Wear appropriate personal protective equipment. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Keep containers tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

Engine oil.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Belgium. Exposure Limit Values.

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

##### Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value
Lubricating oils (CAS 74869-22-0)	TWA	5 mg/m3

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	TLV	1 mg/m3	Mist.

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	TWA	5 mg/m3	Mist.

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	Ceiling	5 mg/m3	Mist.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	TWA	1 mg/m3	Mist.

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	TWA	0,2 mg/m3	Inhalable fraction.

**Italy. OELs**

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	TWA	5 mg/m3	Inhalable fraction.

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)**

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

**Netherlands. OELs (binding)**

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	TWA	5 mg/m3	Mist.

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	TLV	1 mg/m3	Mist.

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

## Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value
Lubricating oils (CAS 74869-22-0)	STEL	10 mg/m3
	TWA	5 mg/m3

## Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	TWA	1 mg/m3	Fume and mist.
		5 ppm	Fume and mist.

## Spain. Occupational Exposure Limits

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

## Sweden. Occupational Exposure Limit Values

Components	Type	Value	Form
Lubricating oils (CAS 74869-22-0)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no-effect level (DNEL)** Not available.

## Predicted no effect concentrations (PNECs)

Components	Type	Route	Value	Form
Lubricating oils (CAS 74869-22-0)	Oral	Oral	9,33 mg/kg	

## 8.2. Exposure controls

**Appropriate engineering controls** Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist.

## Individual protection measures, such as personal protective equipment

**General information** Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Risk of splashes: Wear approved safety goggles.

### Skin protection

**- Hand protection** Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

**- Other** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory protection** In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with combination filter (type A2/P2) can be used.

**Thermal hazards** When material is heated, wear gloves to protect against thermal burns.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Environmental manager must be informed of all major spillages.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state** Liquid.

**Form** Liquid.

**Colour** Dark green.

**Odour** Slight.

**Odour threshold** Not available.

**pH** Not applicable.

Yamalube 2M Engine Oil TC-W3 RL (For Outboard)

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<b>Melting point/freezing point</b>	5,3 °C (41,5 °F)
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	90 °C (194 °F) Cleveland open cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	0,867
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.
<b>9.2. Other information</b>	
<b>Pour point</b>	-42,5 °C (-44,5 °F)

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Stable at normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	Will not occur.
<b>10.4. Conditions to avoid</b>	Heat, sparks, flames. High temperatures.
<b>10.5. Incompatible materials</b>	Acids. Oxidizing agents.
<b>10.6. Hazardous decomposition products</b>	Carbon oxides.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Ingestion</b>	Swallowing or vomiting of the liquid may result in aspiration into the lungs.
<b>Inhalation</b>	In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.
<b>Skin contact</b>	May cause eczema-like skin disorders (dermatitis).
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

**Symptoms** Shortness of breath. Dermatitis.

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	May cause discomfort if swallowed.
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/irritation</b>	May cause eye irritation.
<b>Respiratory sensitisation</b>	No data available.
<b>Skin sensitisation</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Lubricating oils (CAS 74869-22-0) 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** No data available.

**Specific target organ toxicity - single exposure** No data available.

<b>Specific target organ toxicity - repeated exposure</b>	No data available.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	The harmful effects may increase in used oil.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	Harmful to aquatic life with long lasting effects.
<b>12.2. Persistence and degradability</b>	No data available.
<b>12.3. Bioaccumulative potential</b>	No data available.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	Not available.
<b>Mobility in general</b>	The product is insoluble in water and will spread on the water surface.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.
<b>12.6. Other adverse effects</b>	Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Do not discharge into drains, water courses or onto the ground.
<b>Contaminated packaging</b>	Since emptied containers retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	13 02 05* The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

## SECTION 14: Transport information

### ADR

The product is not covered by international regulation on the transport of dangerous goods.

### RID

The product is not covered by international regulation on the transport of dangerous goods.

### ADN

The product is not covered by international regulation on the transport of dangerous goods.

### IATA

The product is not covered by international regulation on the transport of dangerous goods.

### IMDG

The product is not covered by international regulation on the transport of dangerous goods.

<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	This substance/mixture is not intended to be transported in bulk.
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## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**

Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**

Not listed.

- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended  
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended  
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended  
Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry  
Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA  
Not listed.

#### Authorisations

- Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation  
Not listed.

#### Restrictions on use

- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended  
Lubricating oils (CAS 74869-22-0)
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work  
Not regulated.
- Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding  
Lubricating oils (CAS 74869-22-0)

#### Other EU regulations

- Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances  
Not regulated.
- Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work  
Lubricating oils (CAS 74869-22-0)
- Directive 94/33/EC on the protection of young people at work  
Lubricating oils (CAS 74869-22-0)

**Other regulations** This Safety Data Sheet complies with the requirements of Regulation (EC) No 453/2010.

**National regulations** Follow national regulation for work with chemical agents.

**15.2. Chemical safety assessment** No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

**List of abbreviations** DNEL: Derived No-Effect Level.  
PNEC: Predicted No-Effect Concentration.  
PBT: Persistent, bioaccumulative and toxic.  
vPvB: Very Persistent and very Bioaccumulative.

**References** CONCAWE

**Information on evaluation method leading to the classification of mixture** The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.

**Full text of any statements or R-phrases and H-statements under Sections 2 to 15** R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H411 - Toxic to aquatic life with long lasting effects.

**Training information** Follow training instructions when handling this material.

**Disclaimer** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.