

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.

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1119 NC Schipol-Rijk, The Netherlands

Telephone +31 (0) 20 654 6000

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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	
Classification:	DSD: -				
	CLP: -				
Hydrocarbons,C11-C14,n-alkanes ,isoalkanes,cyclics,<2%aromatics	10 - < 20	- 918-481-9	-	-	
Classification:	DSD: Xn;R65				
	CLP: Asp. Tox. 1;H304				
Long chain alkyl polyamide	5 - < 10	Proprietary	-	-	
Classification:	DSD: Xi;R36/38, R43, N;R51/53				
	CLP: 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/m ³
	TWA	5 mg/m ³

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/m ³	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/m ³	Mist.
	TWA	5 mg/m ³	Mist.

Sweden. Occupational Exposure Limit Values

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

913276 Version No.: 01 Revision date: - Issue date: 22-March-2013

SDS EU

5 / 8

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

SECTION 10: Stability and reactivity

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

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

Symptoms Shortness of breath. Dermatitis.

11.1. Information on toxicological effects

Acute toxicity	May cause discomfort if swallowed.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/irritation	May cause eye irritation.
Respiratory sensitisation	No data available.
Skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	No data available.
Carcinogenicity	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.

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

SECTION 12: Ecological information

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Do not discharge into drains, water courses or onto the ground.
Contaminated packaging	Since emptied containers retain product residue, follow label warnings even after container is emptied.
EU waste code	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.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	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.