

Page 1 of 12

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 28.01.2021 / 0004

Replacing version dated / version: 18.06.2019 / 0003

Valid from: 28.01.2021 PDF print date: 16.03.2021 Marine 2T DFI Motor Oil

# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

### Marine 2T DFI Motor Oil

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

Motor oil

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC17 - Hydraulic fluids

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC20 - Use of functional fluids in small devices

Article Categories [AC]: AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 9a - Widespread use of functional fluid (indoor)

ERC 9b - Widespread use of functional fluid (outdoor)

#### **Uses advised against:**

No information available at present.

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

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr

Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

### 1.4 Emergency telephone number

## **Emergency information services / official advisory body:**

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## Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

### **SECTION 2: Hazards identification**



Page 2 of 12

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 28.01.2021 / 0004 Replacing version dated / version: 18.06.2019 / 0003

Valid from: 28.01.2021 PDF print date: 16.03.2021 Marine 2T DFI Motor Oil

## 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

#### 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

EUH210-Safety data sheet available on request.

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

# n.a. **3.2 Mixtures**

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119456620-43-XXXX
Index	
EINECS, ELINCS, NLP	926-141-6 (REACH-IT List-No.)
CAS	
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304

Phenol, (dimethylamino)methyl-, polyisobutylene derivatives	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	
CAS	
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Chronic 3, H412

Isooctadecanoic acid, reaction products with tetraethylenepentamine	
Registration number (REACH)	01-2119960832-33-XXXX
Index	
EINECS, ELINCS, NLP	701-204-9 (REACH-IT List-No.)
CAS	
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315
	Eye Irrit. 2, H319

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

#### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation



Page 3 of 12

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 28.01.2021 / 0004

Replacing version dated / version: 18.06.2019 / 0003

Valid from: 28.01.2021 PDF print date: 16.03.2021 Marine 2T DFI Motor Oil

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

## Suitable extinguishing media

CO2

Foam

Dry extinguisher

#### Unsuitable extinguishing media

High volume water jet

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

In case of fire the following can develop:

Oxides of carbon

Toxic gases

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

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

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Fill the absorbed material into lockable containers.

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## **SECTION 7: Handling and storage**



Page 4 of 12

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 28.01.2021 / 0004

Replacing version dated / version: 18.06.2019 / 0003

Valid from: 28.01.2021 PDF print date: 16.03.2021 Marine 2T DFI Motor Oil

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

## 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Avoid formation of oil mist.

Ensure good ventilation.

Avoid contact with eyes or skin.

Do not carry cleaning cloths soaked in product in trouser pockets.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

## 7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Under all circumstances prevent penetration into the soil.

Store at room temperature.

Store in a dry place.

## 7.3 Specific end use(s)

No information available at present.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 1200 mg/m3

Chemical Name	Hydrocarbons, C11-C14, n-al	Content %:10- <25		
WEL-TWA: 1200 mg/m3 (>=C7 no	mal and branched WEL-ST	EL:		
chain alkanes)				
Monitoring procedures:	- Draeger - H	ydrocarbons 0,1%/c (81 03 571)		
	- Draeger - H	ydrocarbons 2/a (81 03 581)		
	- Compur - K	TA-187 S (551 174)		
BMGV:		Other inform	ation:	
Chemical Name	Oil mist, mineral			Content %:
WEL-TWA: 5 mg/m3 (Mineral oil, 6	xcluding metal WEL-ST	EL:		
working fluids, ACGIH)				
Monitoring procedures:	- Draeger - C	il Mist 1/a (67 33 031)		
BMGV:		Other inform	ation:	

Isooctadecanoic acid, reaction products with tetraethylenepentamine								
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note		
	Environmental							
	compartment							
	Environment - freshwater		PNEC	0,46	mg/l			
	Environment - marine		PNEC	0,046	mg/l			
	Environment - sediment,		PNEC	38100	mg/kg dw			
	freshwater							
	Environment - sediment,		PNEC	3810	mg/kg dw			
	marine							
	Environment - soil		PNEC	10	mg/kg dw			
	Environment - sewage		PNEC	1000	mg/l			
	treatment plant							
	Environment - oral (animal		PNEC	33,3	mg/kg feed			
	feed)							



(B)

Page 5 of 12

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 28.01.2021 / 0004

Replacing version dated / version: 18.06.2019 / 0003

Valid from: 28.01.2021 PDF print date: 16.03.2021 Marine 2T DFI Motor Oil

Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,9	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,67	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	1,67	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3,33	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	11,75	mg/m3	

Distillates (petroleum), hydrotreated heavy paraffinic								
Area of application	Exposure route / Effect on health Descriptor Value Unit Note							
	Environmental							
	compartment							
	Environment - oral (animal		PNEC	9,33	mg/kg			
	feed)							

- WEL-TWA = Workplace Exposure Limit Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
- (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit (15-minute reference period).
- (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

#### 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

With danger of contact with eyes.

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Protective gloves, oil resistant (EN 374).

If applicable

Protective nitrile gloves (EN 374).

Protective gloves made of polyvinyl alcohol (EN 374).

Protective Viton® / fluoroelastomer gloves (EN 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:



(B)

Page 6 of 12

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 28.01.2021 / 0004

Replacing version dated / version: 18.06.2019 / 0003

Valid from: 28.01.2021 PDF print date: 16.03.2021 Marine 2T DFI Motor Oil

480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

With oil mist formation:

Filter A2 P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

#### **SECTION 9: Physical and chemical properties**

No

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

Physical state: Liquid Colour: Red

Odour: Characteristic
Odour threshold: Not determined

pH-value: Mixture is non-soluble (in water).

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point:

Evaporation rate:

Not determined
104 °C

Not determined
Not determined
Not determined
Not determined
Not determined

Flammability (solid, gas):

Lower explosive limit:

Upper explosive limit:

Vapour pressure:

Vapour density (air = 1):

Density:

Not determined

Not determined

Not determined

Not determined

O,865 g/cm3

Bulk density:

Does not apply to liquids.

Solubility(ies):

Water solubility:

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Not determined

Not determined

Not determined

Not determined

Viscosity:

37,5 mm2/s (40°C)

Viscosity: 7,0 mm2/s (100°C)
Explosive properties: Product is not explosive.

Oxidising properties:

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Surface tension:

Solvents content:

Not determined

Not determined

Not determined

Not determined



Page 7 of 12

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 28.01.2021 / 0004

Replacing version dated / version: 18.06.2019 / 0003

Valid from: 28.01.2021 PDF print date: 16.03.2021 Marine 2T DFI Motor Oil

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

## 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

Strong heat

### 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

## 10.6 Hazardous decomposition products

No decomposition when used as directed.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

Marine 2T DFI Motor Oil						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	
• •					Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5000	mg/m3/8h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	
Skin corrosion/irritation:					OECD 404 (Acute	Analogous
					Dermal	conclusion,
					Irritation/Corrosion)	Drying of the
						skin., Dermatitis
						(skin
						inflammation)
Serious eye damage/irritation:					OECD 405 (Acute Eye	Analogous
					Irritation/Corrosion)	conclusion,
						Slightly irritant
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact),
						Analogous
						conclusion



Page 8 of 12

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 28.01.2021 / 0004

Replacing version dated / version: 18.06.2019 / 0003

Valid from: 28.01.2021 PDF print date: 16.03.2021 Marine 2T DFI Motor Oil

Germ cell mutagenicity:	in vivo	Negative
Germ cell mutagenicity:	OECD 471 (Bacterial	Analogous
	Reverse Mutation Test)	conclusion,
		Negative
Carcinogenicity:	OECD 453 (Combined	Analogous
	Chronic	conclusion,
	Toxicity/Carcinogenicity	Negative
	Studies)	
Reproductive toxicity:	OECD 414 (Prenatal	Analogous
	Developmental Toxicity	conclusion,
	Study)	Negative
Specific target organ toxicity -		Analogous
single exposure (STOT-SE):		conclusion, No
		indications of
		such an effect.
Specific target organ toxicity -	OECD 408 (Repeated	Analogous
repeated exposure (STOT-RE):	Dose 90-Day Oral	conclusion, Not
	Toxicity Study in	to be expected
	Rodents)	
Aspiration hazard:		Yes
Symptoms:		drying of the
		skin.,
		headaches,
		fatigue,
		dizziness,
		nausea,
		diarrhoea,
		vomiting

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)measure d
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Reproductive toxicity:				Rat	OECD 421 (Reproduction/Developm ental Toxicity Screening Test)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	>1000	mg/kg/d	Rat	OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

Marine 2T DFI Motor Oil								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to fish:							n.d.a.	
12.1. Toxicity to daphnia:							n.d.a.	
12.1. Toxicity to algae:							n.d.a.	



Page 9 of 12

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 28.01.2021 / 0004

Replacing version dated / version: 18.06.2019 / 0003

Valid from: 28.01.2021 PDF print date: 16.03.2021 Marine 2T DFI Motor Oil

12.2. Persistence and	n.d.a.
degradability:	
12.3. Bioaccumulative	n.d.a.
potential:	
12.4. Mobility in soil:	n.d.a.
12.5. Results of PBT	n.d.a.
and vPvB assessment	
12.6. Other adverse	n.d.a.
effects:	
Other information:	DOC-elimination
	degree(complexi
	ng organic
	substance)>=
	80%/28d: No

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOELR	28d	0,17	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOELR	21d	1,22	mg/l	Daphnia magna	QSÁR	
12.1. Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	69	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		6-8			, , ,	High
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Phenol, (dimethylamino)methyl-, polyisobutylene derivatives								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to fish:	LC50	96h	31	mg/l	Pimephales promelas			
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna			
12.1. Toxicity to algae:	EC50	96h	>450	mg/l	Pseudokirchneriell a subcapitata			
12.2. Persistence and degradability:	DOC	28d	20,7	%	activated sludge		Inherent	
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge			

Isooctadecanoic acid, reaction products with tetraethylenepentamine								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Pimephales	OECD 203 (Fish,		
					promelas	Acute Toxicity		
					'	Test)		
12.2. Persistence and		28d	4,5	%		OECD 301 B	Not readily	
degradability:						(Ready	biodegradable	
						Biodegradability -		
						Co2 Evolution		
						Test)		



Page 10 of 12

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 28.01.2021 / 0004

Replacing version dated / version: 18.06.2019 / 0003

Valid from: 28.01.2021 PDF print date: 16.03.2021 Marine 2T DFI Motor Oil

12.1. Toxicity to daphnia:	NOEC/NOEL	21d	32	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Àcute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	96h	94	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	96h	23	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge		
Other information:	Log Kow		>9,36				measured

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

# For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

#### **SECTION 14: Transport information**

n.a.

n.a.

## **General statements**

14.1. UN number: n.a.

## Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:

Classification code: n.a. LQ: n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

## Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a. Marine Pollutant: n.a

Not applicable 14.5. Environmental hazards:

#### Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a.



Page 11 of 12

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 28.01.2021 / 0004

Replacing version dated / version: 18.06.2019 / 0003

Valid from: 28.01.2021 PDF print date: 16.03.2021 Marine 2T DFI Motor Oil

14.5. Environmental hazards:

Not applicable

#### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.

## **SECTION 15: Regulatory information**

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

Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC):

25,32 %

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Revised sections:

3, 8, 9, 11, 12, 15

# Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Asp. Tox. — Aspiration hazard

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Skin Irrit. — Skin irritation Eye Irrit. — Eye irritation

# Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

dw dry weight



Page 12 of 12

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community
ECHA European Chemicals Agency
EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

ncl. including, inclusive

IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org. organic

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

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