

Page: 1 / 12

Revision nr: 3.0

Issue date : 21/02/2023

# 4-Stroke Marine Engine Oil 10W-30

Supersedes : 28/06/2022

766-01-0282S

(Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220

426)

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

1.1. Product identifier

Product form : Mixture

Trade name : 4-Stroke Marine Engine Oil 10W-30

Product code : 8M0086220, 8M0086221, 8M0086222, 8M0165791

8M0206950, 8M0206952

Document no. : 766-01-0282S

(Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220426)

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

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use, Consumer use

Use of the substance/mixture : Lubricants

#### 1.2.2. Uses advised against

No additional information available

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

Brunswick Marine EMEA
Parc industriel de Petit-Rechain, Avenue Mercury 8
4800 Verviers - Belgium
T +32 (0)87 32 32 11

bme.compliance@brunswick.com

# 1.4. Emergency telephone number

Emergency number : 0032 3 575 55 55

This telephone number is available 24 hours per day, 7 days per week.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Extra phrases : EUH208 - Contains Molybdenum polysulphide long chain alkyl dithiocarbamate complex.

May produce an allergic reaction.

EUH210 - Safety data sheet available on request.



Page : 2 / 12

Revision nr : 3.0

Issue date : 21/02/2023 Supersedes : 28/06/2022

# 4-Stroke Marine Engine Oil 10W-30

766-01-02825

(Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220 426)

Child-resistant fastening : Not applicable Tactile warning : Not applicable

#### 2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment : Not applicable.

Component		
	zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) (2215-35-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Comments : Mineral oil (<3% DMSO)

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	(CAS-No.) 2215-35-2 (EC-No.) 218-679-9 (REACH-no) 01-2119953275-34-xxxx	1 – 1,49	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	(EC-No.) 457-320-2 (REACH-no) 01-0000019337-66-XXXX	0,1 - 0,49	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412

## Specific concentration limits:

	Substance name	Product identifier	Specific concentration limits
	zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	(CAS-No.) 2215-35-2	( 10 <c 1,="" 100)="" dam.="" eye="" h318<="" th="" ≤=""></c>
		(EC-No.) 218-679-9	
		(REACH-no) 01-2119953275-34-xxxx	

Full text of H- and EUH-statements: see section 16

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

# 4.1. Description of first aid measures

Additional advice

: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

Inhalation

: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.



Page: 3 / 12

Revision nr: 3.0

Issue date: 21/02/2023 Supersedes: 28/06/2022

4-Stroke Marine Engine Oil 10W-30

766-01-0282S (Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220 426)

Skin contact : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In

case of doubt or persistent symptoms, consult always a physician.

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, Eyes contact

if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult

always a physician.

: Rinse mouth thoroughly with water. Do NOT induce vomiting. Get medical advice/attention. Ingestion

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

Inhalation : No adverse effects are expected.

Skin contact : No adverse effects are expected. May produce an allergic reaction.

Eyes contact : No adverse effects are expected.

Ingestion : The following symptoms may occur: May cause gastrointestinal irritation, nausea, vomiting

and diarrhoea.

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

No data available.

## **SECTION 5: Firefighting measures**

#### **Extinguishing media**

Suitable extinguishing media : Water spray. Alcohol resistant foam. dry extinguishing powder. Carbon dioxide.

Unsuitable extinguishing media : Strong water jet.

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

Specific hazards : Heating will cause a rise in pressure with a risk of bursting.

Hazardous decomposition products in case of : Carbon oxides (CO, CO2).

fire

#### Advice for firefighters

Firefighting instructions : Special protective equipment for firefighters. In case of fire: Wear self-contained breathing

apparatus. Use water spray or fog for cooling exposed containers. Do not allow run-off from

fire-fighting to enter drains or water courses. Evacuate personnel to a safe area.

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

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

#### 6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate personnel to a safe area. Stay upwind/keep distance from source. Provide

> adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapour/aerosol. Avoid contact

with skin, eyes and clothing.

#### 6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place.

Concerning personal protective equipment to use, see section 8.

#### **Environmental precautions**

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.



4-Stroke Marine Engine Oil 10W-30

Page : 4 / 12

Revision nr: 3.0

Issue date: 21/02/2023

Supersedes : 28/06/2022

766-01-0282S

(Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220

426)

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Stop leak if safe to do so. Dam up. Clean-up methods - small spillage: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone, Collect in closed and suitable containers for disposal. Clean-up methods - large spillage: Recover large spills by pumping (use an explosion proof or hand pump), Keep in suitable, closed containers for disposal. Dispose of waste product or used containers according to local regulations.

#### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

- : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Do not allow to enter into surface water or drains.
- ilito surface water or uralir

Hygiene measures : Keep good industrial hygiene. Wash hands immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs.

Separate working clothes from town clothes. Remove contaminated clothing and shoes.

Wash contaminated clothing before reuse.

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

Technical measures

: Store in a dry, cool and well-ventilated place (< 40 °C). Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Packaging materials : Keep only in the original container.

# 7.3. Specific end use(s)

No data available.

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

#### 8.1. Control parameters

Additional information

: Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

8.2. Exposure controls

Engineering measure(s)

: Provide adequate ventilation. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling.

Personal protective equipment

: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



Page : 5 / 12

Revision nr : 3.0

Issue date : 21/02/2023

# 4-Stroke Marine Engine Oil 10W-30

Supersedes : 28/06/2022

766-01-02825

(Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220 426)

Hand protection : Wear chemically resistant gloves (tested to EN374) . Suitable material: Nitrile rubber.

Thickness: > 0,35 mm. Breakthrough time: > 480min. The quality of the protective gloves

resistant to chemicals must be chosen as a function of the specific working place

concentration and quantity of hazardous substances.

Eye protection : Use suitable eye protection (EN166): Safety glasses

Body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN

EN 140). full face mask (DIN EN 136). Filter type: ABEK + P. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing

apparatus must be used. (EN 137)

Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.

Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental

protection legislation.

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

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

Physical state : Liquid **Appearance** : liquid. Oily. Colour brown. Odour : Characteristic. No data available Odour threshold No data available Relative evaporation rate (butylacetate=1) : No data available Melting / freezing point No data available Freezing point : No data available Initial boiling point and boiling range No data available : > 200 °C (ASTM D92) Flash point : No data available Auto-ignition temperature Decomposition temperature No data available Flammability : Not applicable, liquid Vapour pressure No data available Vapour density : No data available Relative density : No data available : 874 kg/m3 (15 °C) Density

Partition coefficient n-octanol/water : No data available
Kinematic viscosity : 82 mm²/s (40 °C)
Dynamic viscosity : No data available

Solubility

Explosive properties : Not applicable. The study does not need to be conducted because there are no chemical

: Water: Slightly soluble

groups associated with explosive properties present in the molecule.

Oxidising properties : Not applicable. The classification procedure needs not to be applied because there are

no chemical groups present in the molecule which are associated with oxidising

properties.

Explosive limits : No data available



4-Stroke Marine Engine Oil 10W-30

Page: 6 / 12

Revision nr : 3.0

Issue date: 21/02/2023

Supersedes : 28/06/2022

766-01-02825

(Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220

426)

Particle size : Not applicable Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable Particle aggregation state : Not applicable Particle agglomeration state : Not applicable Particle specific surface area : Not applicable Particle dustiness : Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

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

## 10.1. Reactivity

None under normal conditions. Reference to other sections 10.4 & 10.5.

#### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

# 10.3. Possibility of hazardous reactions

None under normal processing.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See Section 7 for information on safe handling.

#### 10.5. Incompatible materials

Strong oxidizing agents. Acids. Bases. See Section 7 for information on safe handling.

#### 10.6. Hazardous decomposition products

Reference to other sections 5.2.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) (2215-35-2)	
LD50/oral/rat	2230 mg/kg (OECD 401)
LD50/dermal/rabbit	> 3160 mg/kg
LC50/inhalation/4h/rat	> 2 mg/l (Exposure time: 1 h)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: No data available



Page: 7 / 12

Revision nr: 3.0

Issue date: 21/02/2023

Supersedes: 28/06/2022

# 4-Stroke Marine Engine Oil 10W-30

766-01-0282S

(Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220 426)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

On basis of test data (EC 218-679-9)

pH: No data available

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met) Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met) : Not classified (Based on available data, the classification criteria are not met) Carcinogenicity Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met) Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

4-Stroke Marine Engine Oil 10W-30

82 mm<sup>2</sup>/s (40 °C) Kinematic viscosity

Other information

: Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

#### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### 11.2.2 Other information

Other information

: Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

**Environmental properties** 

: According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

Hazardous to the aquatic environment, short-

term (acute)

: Not classified

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) (2215-35-2)		
LC50 - Fish [1]	(96h) 4,5 mg/I Oncorhynchus mykiss (Rainbow trout)	
LC50 - Fish [2]	(96h) 46 mg/l Cyprinodon variegatus (sheepshead minnow)	
EC50 - Crustacea [1]	(48h) 23 mg/l Daphnia magna (Big water flea)	
EC50 72h - Algae [1]	21 mg/l Scenedesmus quadricauda	
EC50 96h - Algae [1]	1 – 5 mg/l (Species: Pseudokirchneriella subcapitata)	
NOEC (acute)	1,8 mg/l Oncorhynchus mykiss	
NOEC chronic crustacea	0,4 mg/l	



Page: 8 / 12

Revision nr: 3.0

Issue date : 21/02/2023

Supersedes : 28/06/2022

# 4-Stroke Marine Engine Oil 10W-30

766-01-02825

(Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220

426)

Molybdenum polysulphide long chain alkyl dithiocarbamate complex	
EC50 - Crustacea [1]	50 mg/l (48 h)
NOEC (acute)	94,8 mg/l (Oncorhynchus mykiss) 96h (OECD 203)
NOEC chronic algae	100 mg/l (Daphnia Magna) 21days

# 12.2. Persistence and degradability

4-Stroke Marine Engine Oil 10W-30	
Persistence and degradability	Minimally biodegradable.
zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) (2215-35-2)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	1,5 % Sturm 28d
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	
Persistence and degradability	Not readily biodegradable.
Biodegradation	22,75 % (OECD 301) (29d)

# 12.3. Bioaccumulative potential

4-Stroke Marine Engine Oil 10W-30	
Partition coefficient n-octanol/water	No data available

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) (2215-35-2)	
Bioconcentration factor (BCF)	2,2 (0,1d)
Partition coefficient n-octanol/water	2,21 (at 20 °C (at pH >=5-<=6)
Partition coefficient n-octanol/water (Log Kow)	2,21 (20°C)

Molybdenum polysulphide long chain alkyl dithiocarbamate complex	
BCF - Fish [1]	88 (OECD 305, Cyprinus carpio, 25°C)

# 12.4. Mobility in soil

4-Stroke Marine Engine Oil 10W-30	
Ecology - soil	No data available.

# 12.5. Results of PBT and vPvB assessment

Component	
, , ,	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII



4-Stroke Marine Engine Oil 10W-30

Page: 9 / 12

Revision nr: 3.0

Issue date: 21/02/2023

Supersedes: 28/06/2022

766-01-0282S

(Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220

426)

#### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### 12.7. Other adverse effects

Additional information : No data available

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Do not allow to enter into surface water or drains. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.

Additional information

: Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC,

75/442/EEC, 91/689/EEC)

: This material and its container must be disposed of as hazardous waste Waste codes should be assigned by the user based on the application for which the product

was used.

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number or	r ID number	-	•	-
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shi	pping name	-	<b>-</b>	1
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport haz	ard class(es)	-		<b>_</b>
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group		-	<b>-</b>	1
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmenta	l hazards	-		<b>_</b>
Not applicable	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
	environment : No	environment : No	environment : No	environment : No
	Marine pollutant : No			
	<b>'</b>	Not applicable	<u> </u>	1

#### Special precautions for user

Special precautions for user : Not applicable

#### - Overland transport

Not applicable

# - Transport by sea

No data available



4-Stroke Marine Engine Oil 10W-30

Page: 10 / 12

Revision nr: 3.0

Issue date: 21/02/2023

Supersedes: 28/06/2022

766-01-0282S

(Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220

426)

#### - Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

#### 14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : Not applicable.

### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories	zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl)
set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on	bis(phosphorodithioate); Molybdenum polysulphide
sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	long chain alkyl dithiocarbamate complex
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories	zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl)
set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	bis(phosphorodithioate); Molybdenum polysulphide
	long chain alkyl dithiocarbamate complex

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **National regulations** 15.1.2.

#### **France**

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

#### Germany

Regulatory reference : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### Netherlands

Waterbezwaarlijkheid : B (4) - Weinig schadelijk voor in het water levende organismen

SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed SZW-lijst van reprotoxische stoffen -: None of the components are listed

Borstvoeding

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

: None of the components are listed



Page: 11 / 12

Revision nr: 3.0

January data + 31 /03 /301

Issue date : 21/02/2023

Supersedes: 28/06/2022

766-01-02825

(Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220 426)

# 4-Stroke Marine Engine Oil 10W-30

SZW-lijst van reprotoxische stoffen – Ontwikkeling

: None of the components are listed

#### Norway

This safety datasheet has been prepared according to Norwegian legislation.

: FOR 2002-07-16 nr 1139: Forskrift om klassifisering, merking mv. av farlige kjemikalier; Forskrift om klassifisering, merking og emballering av stoffer og stoffblandinger (CLP); FOR 2008-05-30 nr 516: Forskrift om registrering, vurdering, godkjenning og begrensning av kjemikalier (REACH-forskriften)

## 15.2. Chemical safety assessment

Not applicable

For the following substances of this mixture a chemical safety assessment has been carried out

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) Molybdenum polysulphide long chain alkyl dithiocarbamate complex

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

Indication of changes:

1	Logo	Modified	
1.1	Product code	Modified	

#### Abbreviations and acronyms:

ABM = Algemene beoordelingsmethodiek
ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit  REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
BTT = Breakthrough time (maximum wearing time)
DMEL = Derived Minimal Effect level
DNEL = Derived No Effect Level
EC50 = Median Effective Concentration
EL50 = Median effective level
ErC50 = EC50 in terms of reduction of growth rate
ErL50 = EL50 in terms of reduction of growth rate
EWC = European waste catalogue
LC50 = Median lethal concentration
LD50 = Median lethal dose
LL50 = Median lethal level
NA = Not applicable
NOEC = No observed effect concentration
NOEL: no-observed-effect level
NOELR = No observed effect loading rate
NOAEC = No observed adverse effect concentration
NOAEL = No observed adverse effect level
N.O.S. = Not Otherwise Specified
OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
PNEC = Predicted No Effect Concentration
Quantitative structure-activity relationship (QSAR)



Page: 12 / 12 Revision nr: 3.0

Issue date: 21/02/2023

s: 28/06/2022

25

(Original SDS: MSDS\_0282S 70117\_BRUNSWICK\_EN\_20220 426)

4-Stroke Marine Engine Oil 10W-30	Supersedes
	766-01-0282

STOT = Specific Target Organ Toxicity
TWA = time weighted average
VOC = Volatile organic compounds
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the

datasheet

: Safety Data Sheet: Supplier. ECHA (European Chemicals Agency), LOLI.

Training advice

: Training staff on good practice.

Other information

: Classification - Assessment method: CLP Calculation method (Article 9). Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

#### Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
EUH208	Contains Molybdenum polysulphide long chain alkyl dithiocarbamate complex. May produce an allergic reaction.
EUH210	Safety data sheet available on request.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Classification according to Regulation (EC) No. 1272/2008 [CLP] Labelling according to Regulation (EC) No. 1272/2008 [CLP]

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.