

Page 1 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

### 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 Benzinstabilisator Marine Fuel Stabiliser

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

# Additives 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:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (LMR) +1 872 5888271 (LMR)

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

	of the substance or mixi ording to Regulation (EC	
Hazard class	Hazard category	Hazard statement
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

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



Page 2 of 19

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser



Danger

H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P301+P310-IF SWALLOWED: Immediately call a POISON CENTER / doctor. P331-Do NOT induce vomiting. P405-Store locked up.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH066-Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C10, aromatics, <1% naphthalene Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

#### 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 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

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

### 3.1 Substances

#### n.a. 3.2 Mixtures

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119457273-39-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	918-481-9
CAS	
content %	60-80
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Asp. Tox. 1, H304
Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-	
hydroxyphenyl)propionate	
Registration number (REACH)	01-0000015551-76-XXXX
Index	607-530-00-7
EINECS, ELINCS, NLP, REACH-IT List-No.	406-040-9
CAS	125643-61-0
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Aquatic Chronic 4, H413
Hydrocarbons, C10, aromatics, <1% naphthalene	
Registration number (REACH)	01-2119463583-34-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	918-811-1



#### Page 3 of 19

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

CAS	(64742-94-5)
content %	5-15
Classification according to Regulation (EC) 1272/2008 (CLP), M-fact	tors EUH066
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411

2-Butoxyethanol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	603-014-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	203-905-0
CAS	111-76-2
content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 3, H331
	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
Specific Concentration Limits and ATE	ATE (oral): 1200 mg/kg
-	ATE (as inhalation, Vapours): 3 mg/l

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.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here. Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

### **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

Remove person from danger area.

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 - give copious water to drink. 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.

The following may occur: Product removes fat. Dermatitis (skin inflammation) Ingestion: Danger of aspiration. Lung damage Oedema of the lungs 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

Gastric lavage (stomach washing) only under endotracheal intubation. Subsequent observation for pneumonia and pulmonary oedema.



Page 4 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media Suitable extinguishing media

CO2 Extinction powder Foam

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#### 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 Hydrocarbons Toxic pyrolysis products. Flammable vapour/air mixtures

### 5.3 Advice for firefighters

For personal protective equipment see Section 8. 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

### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke. Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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

### 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.

### 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

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

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke. Take measures against electrostatic charging, if appropriate.



Page 5 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use.

Use working methods according to operating instructions.

#### 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

Keep out of access to unauthorised individuals. Store product closed and only in original packing. Not to be stored in gangways or stair wells. Solvent resistant floor Do not store with oxidizing agents.

Store in a well ventilated place. Protect from direct sunlight and warming.

### 7.3 Specific end use(s)

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No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

### **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): 800 mg/m3

Chemical Name			Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics							
WEL-TWA: 800 mg/m3	WE	L-STEL:								
Monitoring procedures:	- Draeg	er - Hydrocarbons 0,1%/c (	81 03 571)							
	- Draeg	er - Hydrocarbons 2/a (81 0	)3 581)							
	- Comp	ur - KITA-187 S (551 174)								
BMGV:			Other inform	nation: (C	EL acc. to RC	P-method,				
			paragraphs	84-87, EH4	40)					
Chemical Name	Chemical Name Hydrocarbons, C10, aromatics, <1% naphthalene									
WEL-TWA: 500 mg/m3 (Arom		cs) WEL-STEL:								
Monitoring procedures:		er - Hydrocarbons 0,1%/c (	81 03 571)							
	- Draeger - Hydrocarbons 2/a (81 03 581)									
	- Compur - KITA-187 S (551 174)									
BMGV:	Other information:									
Chemical Name	2-Butoxyethanol									
WEL-TWA: 25 ppm (123 mg/n		L-STEL: 50 ppm (246 mc	1/m3) (WEL EL	D						
mg/m3) (EU)	(1122), 20 ppin (00		,, (1722, 28	,						
Monitoring procedures:		ur - KITA-190 U(C) (548 87								
		/lethNr. 2 (D) (Loesungsm				ures 3) - 2014,				
		EU project BC/CEN/ENTR		ard 32-2 (2	:004)					
		1 1403 (ALCOHOLS IV) - 2								
		1 2549 (VOLATILE ORGAN			ENING)) - 199	96				
		83 (2-Butoxyethanol (Butyl								
BMGV: 240 mmol butoxyaceti	c acid/mol creatinine in urine, p	post shift (BMGV)	Other inforn	nation: Sk	(WEL)					
Reaction mass of isomers of:										
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note				
	Environmental									
	compartment									



Page 6 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

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	Environment - sewage		PNEC	10	mg/l
	treatment plant		- DNEO	0.07	
	Environment - sediment,		PNEC	0,37	mg/kg dw
	freshwater		PNEC	0.027	ma/ka du
	Environment - sediment, marine		PINEC	0,037	mg/kg dw
	Environment - soil		PNEC	10	mg/kg dw
			PNEC		
	Environment - freshwater		-	0,018	mg/l
	Environment - marine		PNEC	0,002	mg/l
	Environment - water,		PNEC	0,018	mg/l
	sporadic (intermittent)				
	release				
	Environment - oral (animal		PNEC	41,33	mg/kg feed
	feed)				
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,74	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,83	mg/kg bw/d
Consumer	Human - oral	Long term, systemic effects	DNEL	0,93	mg/kg bw/d
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1,67	mg/kg
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	6,6	mg/m3

Hydrocarbons, C10, aromatics, <1% naphthalene								
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note		
Consumer	Human - dermal	Long term	DNEL	7,5	mg/kg bw/day			
Consumer	Human - inhalation	Long term	DNEL	32	mg/m3			
Consumer	Human - oral	Long term	DNEL	7,5	mg/kg bw/day			
Workers / employees	Human - dermal	Long term	DNEL	12,5	mg/kg bw/day			
Workers / employees	Human - inhalation	Long term	DNEL	151	mg/m3			

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
••	Environmental		•			
	compartment					
	Environment - freshwater		PNEC	8,8	mg/l	
	Environment - marine		PNEC	0,88	mg/l	
	Environment - sediment,		PNEC	34,6	mg/kg dw	
	freshwater					
	Environment - soil		PNEC	2,8	mg/kg dw	
	Environment - sewage		PNEC	463	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	3,46	mg/kg dw	
	marine					
	Environment - sporadic		PNEC	9,1	mg/l	
	(intermittent) release				-	
	Environment - soil		PNEC	2,33	mg/kg	
	Environment - oral (animal		PNEC	20	mg/kg	
	feed)					
Consumer	Human - inhalation	Long term, local effects	DNEL	147	mg/m3	
Consumer	Human - dermal	Short term, systemic	DNEL	44,5	mg/kg bw/d	
		effects				
Consumer	Human - inhalation	Short term, systemic	DNEL	426	mg/m3	
		effects				



Page 7 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

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Consumer			DNEL	13,4	mg/kg bw/d
Consumer	Human - inhalation	Short term, local DNE effects		123	mg/m3
Consumer	Human - dermal	Long term, systemic effects	<b>o</b>		mg/kg bw/d
Consumer	Human - inhalation	Long term, systemic effects	DNEL	49	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	3,2	mg/kg bw/d
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	89	mg/kg bw/d
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	663	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	246	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	75	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	98	mg/m3

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:

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

Skin protection - Hand protection: Solvent resistant protective gloves (EN ISO 374). If applicable Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,4 Permeation time (penetration time) in minutes:



Page 8 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

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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 Neoprene® / polychloroprene gloves (EN ISO 374). Protective hand cream recommended.

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

Respiratory protection: If OES or MEL is exceeded. Gas mask filter A (EN 14387), code colour brown At high concentrations: Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138) 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**

### 9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Blue
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	145 °C
Flammability:	Flammable
Lower explosion limit:	~0,6 Vol-%
Upper explosion limit:	~8 Vol-%
Flash point:	>61 °C
Auto-ignition temperature:	There is no information available on this parameter.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	<7 mm2/s (40°C)
Solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	0,822 g/ml (15°C)
Relative vapour density:	Vapours heavier than air.
Particle characteristics:	Does not apply to liquids.
9.2 Other information	
Explosives:	Product is not explosive.
Oxidising liquids:	No
Bulk density:	n.a.
SECTION 10: S	tability and reactivity

### **10.1 Reactivity**



Page 9 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

# The product has not been tested. **10.2 Chemical stability**

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Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

#### **10.4 Conditions to avoid** Heating, open flame, ignition sources

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### 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids. Avoid contact with strong alkalis.

#### **10.6 Hazardous decomposition products**

No decomposition when used as directed.

### **SECTION 11: Toxicological information**

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

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

Marine Benzinstabilisator			· · ·			
Marine Fuel Stabiliser						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated value,
						Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated value,
						Aerosol
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	Analogous
					Toxicity)	conclusion
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	Analogous
					Dermal Toxicity)	conclusion
Acute toxicity, by inhalation:	LC50	>4951	mg/m3/4h	Rat	OECD 403 (Acute	Analogous
					Inhalation Toxicity)	conclusion,
						Vapours
Skin corrosion/irritation:					OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion
Serious eye damage/irritation:					OECD 405 (Acute Eye	Not irritant,
					Irritation/Corrosion)	Analogous
						conclusion
Respiratory or skin					OECD 406 (Skin	Not sensitizising,
sensitisation:					Sensitisation)	Analogous
						conclusion



B Page 10 of 19

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

Germ cell mutagenicity:		OECD 473 (In Vitro	Negative,
		Mammalian	Analogous
		Chromosome	conclusion
		Aberration Test)	
Germ cell mutagenicity:		OECD 474 (Mammalian	Negative,
		Erythrocyte	Analogous
		Micronucleus Test)	conclusion
Germ cell mutagenicity:	Salmonella	OECD 471 (Bacterial	Negative
	typhimurium	Reverse Mutation Test)	
Carcinogenicity:		OECD 453 (Combined	Negative,
5,		Chronic	Analogous
		Toxicity/Carcinogenicity	conclusion
		Studies)	
Reproductive toxicity:		OECD 414 (Prenatal	Negative,
, ,		Developmental Toxicity	Analogous
		Study)	conclusion
Specific target organ toxicity -		OECD 408 (Repeated	Negative,
repeated exposure (STOT-RE):		Dose 90-Day Oral	Analogous
		Toxicity Study in	conclusion
		Rodents)	
Aspiration hazard:			Yes
Symptoms:			unconsciousness
			, headaches,
			dizziness,
			mucous
			membrane
			irritation

Reaction mass of isomers of:						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	> 2000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute	
					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					OECD 473 (In Vitro	NegativeChinese
					Mammalian	hamster
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:					OECD 474 (Mammalian	NegativeChinese
					Erythrocyte	hamster
					Micronucleus Test)	
Reproductive toxicity:	NOAEL	150-600	mg/kg	Mouse	OECD 415 (One-	
			bw/d		Generation	
					Reproduction Toxicity	
					Study)	
Carcinogenicity:				Rat		Negative,
						Analogous
						conclusion
Aspiration hazard:						Negative
Hydrocarbons, C10, aromatic				-	T	1
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	



Page 11 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

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Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>4688	mg/m3/4h	Rat	OECD 403 (Acute	Vapours
			_		Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Skin corrosion/irritation:						Repeated
						exposure may
						cause skin
						dryness or
						cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
, ,					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	J
Germ cell mutagenicity:					OECD 479 (Genetic	Negative
					Toxicology - In Vitro	
					Sister Chromatid	
					Exchange assay in	
					Mammalian Cells)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
Control indiagoniony.				typhimurium	Reverse Mutation Test)	Analogous
				()primanam		conclusion
Reproductive toxicity				Rat	OECD 414 (Prenatal	Negative,
(Developmental toxicity):				Rat	Developmental Toxicity	Analogous
(Developmental toxioity):					Study)	conclusionoral
Reproductive toxicity (Effects				Rat	OECD 416 (Two-	Negative,
on fertility):				Rat	generation	Analogous
on rentity).					Reproduction Toxicity	conclusioninhala
					Study)	iv
Specific target organ toxicity -					Study)	May cause
single exposure (STOT-SE):						drowsiness or
single exposure (STOT-SE).						dizziness.,
						STOT SE 3,
						H336
Specific target organ toxicity -					OECD 408 (Repeated	Negative
repeated exposure (STOT-RE):					Dose 90-Day Oral	INEGalive
repeated exposure (STOT-RE).						
					Toxicity Study in	
Againstian hazard					Rodents)	Vee
Aspiration hazard:	NOAEC	>0,38	mc/l	Rat	OECD 413 (Subabrasia	Yes Vapours,
Specific target organ toxicity -	NUAEC	>0,38	mg/l	Rai	OECD 413 (Subchronic	
repeated exposure (STOT-RE),					Inhalation Toxicity - 90-	Analogous
inhalat.:					Day Study)	conclusion13
	NOAFO	000		Det		weeks
Specific target organ toxicity -	NOAEC	900	mg/m3	Rat	OECD 452 (Chronic	Vapours,
repeated exposure (STOT-RE),					Toxicity Studies)	Analogous
inhalat.:						conclusion12
						months
Symptoms:						headaches,
						dizziness,
						fatigue, nausea
-						and vomiting.
Symptoms:						drowsiness,
						headaches,
	1	1				drowsiness,
						dizziness

2-Butoxyethanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	1200	mg/kg			
Acute toxicity, by dermal route:	LD50	2275	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	



Page 12 of 19

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

Acute toxicity, by inhalation:	ATE	3	mg/l			Vapours
Skin corrosion/irritation:				Rabbit	Regulation (EC)	Skin Irrit. 2,
					440/2008 B.4 (DERMAL	Product removes
					IRRITATION/CORROSI	fat.
					ON)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Eye Irrit. 2
					Irritation/Corrosion)	-
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative
					Erythrocyte	-
					Micronucleus Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	-
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	-
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	-
					Mutation Test)	
Carcinogenicity:				Rat	OECD 451	Negative
					(Carcinogenicity Studies)	-
Carcinogenicity:	NOAEC	125	ppm	Mouse	OECD 451	Negative
					(Carcinogenicity Studies)	-
Aspiration hazard:						No
Specific target organ toxicity -	NOAEL	<69	mg/kg	Rat	OECD 408 (Repeated	
repeated exposure (STOT-RE),			bw/d		Dose 90-Day Oral	
oral:					Toxicity Study in	
					Rodents)	
Specific target organ toxicity -	NOAEL	>150	mg/kg	Rabbit	OECD 411 (Subchronic	
repeated exposure (STOT-RE),			bw/d		Dermal Toxicity - 90-day	
dermal:					Study)	

### 11.2. Information on other hazards

Marine Benzinstabilisator Marine Fuel Stabiliser						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply
						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

Hydrocarbons, C10-C13, n-alk	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics											
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes						
Other information:						Repeated						
						exposure may						
						cause skin						
						dryness or						
						cracking.						

### **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).									
Marine Benzinstabilisator									
Marine Fuel Stabiliser	Marine Fuel Stabiliser								
Toxicity / effect Endpoint Time Value Unit Organism Test method Notes									



Safety data sheet accordir Revision date / version: 0' Replacing version dated /	1.12.2022 / 002	20	07/2006, Ani	nex II			
Valid from: 01.12.2022 PDF print date: 24.04.202		-022 / 0012					
Marine Benzinstabilisator Marine Fuel Stabiliser							
12.1. Toxicity to fish:	l		1				n.d.a.
12.1. Toxicity to daphnia:				T			n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and			$\top$	Τ			n.d.a.
degradability:							
12.3. Bioaccumulative							n.d.a.
potential:			_	+			
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse				-			No information
effects:							available on
							other adverse
							effects on the
							environment.
Other information:							According to the
							recipe, contains no AOX.
Hydrocarbons, C10-C13	n-alkanes isc	alkanes cv	clics <2% a	romatics			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOELR	28d	0,101	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity Test)	
	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202	
12.1. Toxicity to daphnia:				U U		(Daphnia sp.	
12.1. Toxicity to daphnia:							
12.1. Toxicity to daphnia:						Acute	
12.1. Toxicity to daphnia:						Acute Immobilisation	
12.1. Toxicity to daphnia:	NOELR	21d	0,176	mg/l	Daphnia magna	Immobilisation Test)	
<ul><li>12.1. Toxicity to daphnia:</li><li>12.1. Toxicity to daphnia:</li><li>12.1. Toxicity to algae:</li></ul>	NOELR EL50	21d 72h	0,176 >1000	mg/l mg/l	Pseudokirchneriell	Immobilisation Test) OECD 201 (Alga,	
12.1. Toxicity to daphnia:		-	,		Daphnia magna Pseudokirchneriell a subcapitata	Immobilisation Test) OECD 201 (Alga, Growth Inhibition	
12.1. Toxicity to daphnia: 12.1. Toxicity to algae:		72h	>1000	mg/l	Pseudokirchneriell a subcapitata	Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.2. Persistence and		-	,		Pseudokirchneriell	Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 F	Readily
12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.2. Persistence and		72h	>1000	mg/l	Pseudokirchneriell a subcapitata	Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 F (Ready	Readily biodegradable
12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.2. Persistence and		72h	>1000	mg/l	Pseudokirchneriell a subcapitata	Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 F (Ready Biodegradability -	
12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.2. Persistence and		72h	>1000	mg/l	Pseudokirchneriell a subcapitata	Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 F (Ready Biodegradability - Manometric	
12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.2. Persistence and degradability:		72h	>1000	mg/l	Pseudokirchneriell a subcapitata	Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 F (Ready Biodegradability -	biodegradable
12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.2. Persistence and degradability: 12.5. Results of PBT		72h	>1000	mg/l	Pseudokirchneriell a subcapitata	Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 F (Ready Biodegradability - Manometric	biodegradable No PBT substance, No
12.1. Toxicity to daphnia:		72h	>1000	mg/l	Pseudokirchneriell a subcapitata	Immobilisation Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 F (Ready Biodegradability - Manometric	biodegradable No PBT

Reaction mass of isome	15 01. C7-9-aikyi	3-(3,3-ui-iei	1-Duly1-4-11	yuroxypheny	i)pi opioliale		
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>74	mg/l	Brachydanio rerio	OECD 203 (Fish,	
_				_		Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	NOEC/NOEL	35d	0,001	mg/l	Brachydanio rerio	OECD 210 (Fish,	
-						Early-Life Stage	
						Toxicity Test)	



Page 14 of 19

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>=1	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Water toxicology is above the water-solubility value.
12.1. Toxicity to algae:	EC50	72h	>3	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	2-4	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.2. Persistence and degradability:							Mechanical precipitation possible.
12.3. Bioaccumulative potential:	Log Pow		9,2				Possible@20°C
12.3. Bioaccumulative potential:	BCF	35d	260			OECD 305 (Bioconcentration - Flow-Through Fish Test)	Concentration in organisms possible.Oncorhy nchus mykiss
12.4. Mobility in soil:							Adsorption in ground., To be expected
12.4. Mobility in soil:	Кос		7673- 18432			OECD 106 (Adsorption/Desor ption Using a Batch Equilibrium Method)	
12.5. Results of PBT and vPvB assessment						,	No PBT substance, No vPvB substance
Toxicity to bacteria:	IC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	NOEC/NOEL	28d	31,6	mg/kg		OECD 217 (Soil Microorganisms - Carbon Transformation Test)	
Other information:	EC50	19d	>100	mg/kg		OECD 208 (Terrestrial Plants, Growth Test)	Brassica rapa
Toxicity to annelids:	EC50	14d	>1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	artificial soil
Toxicity to annelids:	NOEC/NOEL	56d	250	mg/kg	Eisenia foetida	OECD 222 (Earthworm Reproduction Test (Eisenia fetida/Eisenia andrei))	artificial soil



vPvB substance

Insoluble

Page 15 of 19

Water solubility:

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator

Water solubility:			0,5	µg/l			Insoluble
Hydrocarbons, C10, aror	natics <1% na	nhthalono					
Foxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2-5	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LL50	96h	2 - 5	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LL50	96h	2-5	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	3 -10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to algae:	NOELR	72h	2,5	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	>1 -3	mg/l	Raphidocelis subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	49,6	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily but inherent biodegradable. Inherent
12.3. Bioaccumulative potential:	BCF		<100				Low
12.5. Results of PBT and vPvB assessment							No PBT substance, No

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to daphnia:	EC50	48h	1550	mg/l	Daphnia magna	OECD 202	
				_		(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	286	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	95	%		OECD 301 E	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Modified OECD	
						Screening Test)	
12.2. Persistence and degradability:		28d	>99	%		OECD 302 B	Readily
						(Inherent	biodegradable
						Biodegradability -	
						Zahn-	
						Wellens/EMPA	
			+			Test)	
12.3. Bioaccumulative potential:	BCF		3,2				Slight



#### Page 16 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023

Marine Benzinstabilisator Marine Fuel Stabiliser

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12.3. Bioaccumulative potential:	Log Pow		0,81			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	Not to be expected
12.4. Mobility in soil:	H (Henry)		0,00000 16	atm*m3/m ol			
Toxicity to bacteria:	EC10	16h	>700	mg/l	Pseudomonas putida	DIN 38412 T.8	

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

### 13.1 Waste treatment methods

### For the substance / mixture / residual amounts

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

07 07 04 other organic solvents, washing liquids and mother liquors

14 06 03 other solvents and solvent mixtures

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

## 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**

### **General statements**

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

14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	Not applicable
Classification code:	Not applicable
LQ:	Not applicable
Transport category:	Not applicable
Transport by sea (IMDG-code)	
14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
Marine Pollutant:	Not applicable
EmS:	Not applicable
Transport by air (IATA)	
14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	



Page 17 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

Not applicable 14.3. Transport hazard class(es): 14.4. Packing group:

14.5. Environmental hazards:

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14.6. Special precautions for user

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

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

**SECTION 15: Regulatory information** 

Not applicable

Not applicable

Not applicable

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

Observe restrictions:

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

National requirements/regulations on safety and health protection must be applied when using work equipment.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

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

Revised sections:

These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

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

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

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).

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.
EUH066 Repeated exposure may cause skin dryness or cracking.
Asp. Tox. — Aspiration hazard
Aquatic Chronic — Hazardous to the aquatic environment - chronic

Aquatic Chronic — Hazardous to the aquatic environment - chronic STOT SE — Specific target organ toxicity - single exposure - narcotic effects Acute Tox. — Acute toxicity - inhalation Acute Tox. — Acute toxicity - oral Skin Irrit. — Skin irritation Eye Irrit. — Eye irritation

~ 85 %

3, 11, 12, 15



Page 18 of 19

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser

#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

#### Any abbreviations and acronyms used in this document:

according, according to acc., acc. to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Article number Art., Art. no. 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) BCF **Bioconcentration factor** BSEF The International Bromine Council bw body weight CAS Chemical Abstracts Service Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances CLP and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) EC European Community ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community European Inventory of Existing Commercial Chemical Substances EINECS ELINCS European List of Notified Chemical Substances European Norms EN EPA United States Environmental Protection Agency (United States of America)  $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera FU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number general gen. Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential Koc Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient Kow IARC International Agency for Research on Cancer International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code) International Maritime Code for Dangerous Goods IMDG-code



ആ Page 19 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.12.2022 / 0020 Replacing version dated / version: 18.09.2022 / 0019 Valid from: 01.12.2022 PDF print date: 24.04.2023 Marine Benzinstabilisator Marine Fuel Stabiliser incl. 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) Logarithm of adsorption coefficient of organic carbon in the soil Log Koc Log Kow, Log Pow Logarithm of octanol-water partition coefficient Limited Quantities 10 MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. n.av. not available not checked n.c. n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) NI P No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development org. organic OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic ΡE Polyethylene PNEC Predicted No Effect Concentration parts per million ppm **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 Telephone Tel. TOC Total organic carbon 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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