

Page 1 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

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 Multispray

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

2.1 Classification of the substance or mixture

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

Hazard class	Hazard category	Hazard statement
Skin Irrit.	2	H315-Causes skin irritation.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.
Aerosol	1	H222-Extremely flammable aerosol.
Aerosol	1	H229-Pressurised container: May burst if heated.

2.2 Label elements

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



Page 2 of 23

œ

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray



H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P261-Avoid breathing vapours or spray. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves.

P312-Call a POISON CENTRE / doctor if you feel unwell.

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

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

EUH208-Contains Reaction products of 2,5-dimercapto-1,3,4-thiadiazole, sodium salt, with 1-octanethiol and hydrogen peroxide, Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts, Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts, Di-iso-octyl amino methyl tolutriazole. May produce an allergic reaction.

Without adequate ventilation, formation of explosive mixtures may be possible. Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Distillates (petroleum), hydrotreated light naphthenic

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, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
Registration number (REACH)	01-2119475514-35-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	921-024-6
CAS	
content %	25-<50
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 2, H225
	Skin Irrit. 2, H315
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411
Distillates (petroleum), hydrotreated light naphthenic	
Registration number (REACH)	01-2119480375-34-XXXX
Index	649-466-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	265-156-6
CAS	64742-53-6



Page 3 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

(GB)·

	4 40
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	
Registration number (REACH)	01-2119978241-36-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	939-603-7
CAS	
	 1-<10
content %	
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Sens. 1B, H317
Specific Concentration Limits and ATE	Skin Sens. 1B, H317: >=10 %
Benzene, mono-C10-14-alkyl derivs., fractionation bottoms,	
intermediate cut, sulfonated, sodium salts	
Registration number (REACH)	01-2119985162-35-XXXX
Index	
	285-597-8
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	85117-47-1
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Sens. 1B, H317
Reaction products of 2,5-dimercapto-1,3,4-thiadiazole, sodium salt, with	
1-octanethiol and hydrogen peroxide	
Registration number (REACH)	01-2120792779-28-XXXX
Index	
	948-020-7
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H332
	Skin Irrit. 2, H315
	Skin Sens. 1, H317
	Aquatic Chronic 4, H413
Di-iso-octyl amino methyl tolutriazole	
Registration number (REACH)	01-2119982395-25-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	939-700-4
	939-700-4
CAS	
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Skin Sens. 1B, H317
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 2, H411
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	
Registration number (REACH)	01-2119491299-23-XXXX
EINECS, ELINCS, NLP, REACH-IT List-No.	270-128-1
	270-128-1 68411-46-1
EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	270-128-1 68411-46-1 0,1-<1
EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	270-128-1 68411-46-1 0,1-<1
EINECS, ELINCS, NLP, REACH-IT List-No. CAS	270-128-1 68411-46-1

Impurities, test data and additional information may have been taken into account in classifying and labelling the product. 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!



Page 4 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

Never pour anything into the mouth of an unconscious person!

Inhalation

ആ

Remove person from danger area. Supply person with fresh air and consult doctor according to symptoms. If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Eye contact

Remove contact lenses.

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

Ingestion

Typically no exposure pathway. Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor immediately. Danger of aspiration.

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. headaches

dizziness dizziness Coordination disorders mental confusion reddening of the skin Dermatitis (skin inflammation) nausea vomiting Danger of aspiration. oedema of the lungs Chemical pneumonitis (condition similar to pneumonia)

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

Adapt to the nature and extent of fire. Water jet spray/foam/CO2/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 Oxides of sulphur Hydrocarbons Toxic gases Danger of bursting (explosion) when heated Explosive vapour/air or gas/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



Page 5 of 23

അ

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

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.

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

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration. If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available. Active substance:

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.

Avoid inhalation of the vapours. Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate. Do not use on hot surfaces.

Avoid contact with eyes or skin.

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.

Not to be stored in gangways or stair wells.

Observe special regulations for aerosols!

Observe special storage conditions.

Do not store with flammable or self-igniting materials.

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well ventilated place. Store cool.

7.3 Specific end use(s)

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



Page 6 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

œ)

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 600 mg/m3

		*			
Chemical Name	Hydrocarbons, C6-	C7, n-alkanes,	isoalkanes, cyclics	, <5% n-hexane	
WEL-TWA: 600 mg/m3		WEL-STEL:			
Monitoring procedures:	- (Compur - KITA-	187 S (551 174)		
BMGV:				Other information: (OEL acc. to RCP-method,
				paragraphs 84-87, El	H40)
Chamical Name	Livera carbona C2	4			
Chemical Name	Hydrocarbons, C3-	4			
WEL-TWA: 1000 ppm (ACGIH)		WEL-STEL:	1250 ppm (2180 i	mg/m3) (Liquefied	
		petroleum ga	s (LPG))		
Monitoring procedures:	-				
BMGV:				Other information:	
Chemical Name	Oil mist, mineral				
WEL-TWA: 5 mg/m3 (Mineral oil, e	excluding metal	WEL-STEL:			
working fluids, ACGIH)					
Monitoring procedures:	- [Draeger - Oil Mi	st 1/a (67 33 031)		
BMGV:				Other information: -	

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - oral	Long term, systemic effects	DNEL	0,74	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,6	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,7	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	5,4	mg/m3	

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,1	mg/l	
	Environment - marine		PNEC	0,1	mg/l	
	Environment - sediment,		PNEC	45211	mg/kg	
	freshwater					



B Page 7 of 23

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

	Environment - sediment, marine		PNEC	45211	mg/kg
	Environment - water, sporadic (intermittent) release		PNEC	1	mg/l
	Environment - sewage treatment plant		PNEC	1000	mg/l
	Environment - soil		PNEC	36739,7 4	mg/kg
Consumer	Human - inhalation	Long term, systemic effects	DNEL	8,7	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	12,5	mg/kg body weight/day
Consumer	Human - oral	Long term, systemic effects	DNEL	2,5	mg/kg body weight/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	35,26	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	25	mg/kg body weight/day
Workers / employees	Human - dermal	Short term, local effects	DNEL	1,04	mg/cm2

Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment					
	Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	1	mg/m3	
	Environment - sediment, freshwater		PNEC	7235000 00	mg/kg dw	
	Environment - sediment, marine		PNEC	7235000 00	mg/kg dw	
	Environment - soil		PNEC	8687000 00	mg/kg dw	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	10	mg/l	
	Environment - oral (animal feed)		PNEC	16,667	mg/kg feed	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,833	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,667	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,33	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3,33	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,66	mg/m3	

2. iee eeij. annie moniji	tolutriazole					
Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,00097 6	mg/l	



Page 8 of 23

ആ

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

	Environment - marine		PNEC	0,00009 8	mg/l	
	Environment - sporadic (intermittent) release		PNEC	0,00976	mg/l	
	Environment - sewage treatment plant		PNEC	0,69	mg/l	
	Environment - sediment, freshwater		PNEC	0,0121	mg/kg	
	Environment - sediment, marine		PNEC	0,00121	mg/kg	
	Environment - soil		PNEC	0,00184	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,2	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,2	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,3	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1,3	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,4	mg/kg bw/day	

Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment					
	Environment - freshwater		PNEC	0,0012	mg/l	
	Environment - marine		PNEC	0,00012	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,51	mg/l	
	Environment - sediment, freshwater		PNEC	0,0246	mg/kg	
	Environment - sediment, marine		PNEC	0,00246	mg/kg	
	Environment - soil		PNEC	0,0193	mg/kg	
	Environment - sewage treatment plant		PNEC	0,187	mg/l	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,22	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,1	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,05	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,07	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,31	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).

(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).



Page 9 of 23

ആ

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

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: Chemical resistant protective gloves (EN ISO 374). If applicable Protective Neoprene® / polychloroprene gloves (EN ISO 374). Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,5 Permeation time (penetration time) in minutes: 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. If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white 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



Page 10 of 23

œ

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics: 9.2 Other information Explosives:

Aerosol. Active substance: liquid. Brown, Clear Characteristic There is no information available on this parameter. There is no information available on this parameter. Does not apply to aerosols. There is no information available on this parameter. There is no information available on this parameter. Does not apply to aerosols. Does not apply to aerosols. There is no information available on this parameter. There is no information available on this parameter. Does not apply to aerosols. There is no information available on this parameter. Does not apply to mixtures. There is no information available on this parameter. 0,779 g/cm3 (20°C, Active substance) Does not apply to aerosols. Does not apply to aerosols.

Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture. No

Oxidising liquids:

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** Heating, open flame, ignition sources Pressure increase will result in danger of bursting. **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 hazard classes as defined in Regulation (EC) No 1272/2008

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

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):						



isoalkanes, Endpoint LD50 LD50 LC50	cyclics, <5% n- Value >5840 >2800-3100 >20	hexane Unit mg/kg mg/kg mg/l/4h	Organism Rat Rat Rat Rat Rat Rat Rat Rat Guinea pig	Test method OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin	n.d.a. n.d.a. n.d.a. Notes Vapours Skin Irrit. 2 Mild irritant (Analogous conclusion) No (skin contact
Endpoint LD50 LD50	Value >5840 >2800-3100	Unit mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity)OECD 402 (Acute Dermal Toxicity)OECD 403 (Acute Inhalation Toxicity)OECD 404 (Acute Dermal Irritation/Corrosion)OECD 405 (Acute Eye Irritation/Corrosion)	n.d.a. n.d.a. Notes Vapours Skin Irrit. 2 Mild irritant (Analogous conclusion)
Endpoint LD50 LD50	Value >5840 >2800-3100	Unit mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity)OECD 402 (Acute Dermal Toxicity)OECD 403 (Acute Inhalation Toxicity)OECD 404 (Acute Dermal Irritation/Corrosion)OECD 405 (Acute Eye Irritation/Corrosion)	n.d.a. n.d.a. Notes Vapours Skin Irrit. 2 Mild irritant (Analogous conclusion)
Endpoint LD50 LD50	Value >5840 >2800-3100	Unit mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity)OECD 402 (Acute Dermal Toxicity)OECD 403 (Acute Inhalation Toxicity)OECD 404 (Acute Dermal Irritation/Corrosion)OECD 405 (Acute Eye Irritation/Corrosion)	n.d.a. Notes Notes Skin Irrit. 2 Mild irritant (Analogous conclusion)
Endpoint LD50 LD50	Value >5840 >2800-3100	Unit mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity)OECD 402 (Acute Dermal Toxicity)OECD 403 (Acute Inhalation Toxicity)OECD 404 (Acute Dermal Irritation/Corrosion)OECD 405 (Acute Eye Irritation/Corrosion)	Notes Vapours Skin Irrit. 2 Mild irritant (Analogous conclusion)
Endpoint LD50 LD50	Value >5840 >2800-3100	Unit mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity)OECD 402 (Acute Dermal Toxicity)OECD 403 (Acute Inhalation Toxicity)OECD 404 (Acute Dermal Irritation/Corrosion)OECD 405 (Acute Eye Irritation/Corrosion)	Vapours Skin Irrit. 2 Mild irritant (Analogous conclusion)
Endpoint LD50 LD50	Value >5840 >2800-3100	Unit mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity)OECD 402 (Acute Dermal Toxicity)OECD 403 (Acute Inhalation Toxicity)OECD 404 (Acute Dermal Irritation/Corrosion)OECD 405 (Acute Eye Irritation/Corrosion)	Vapours Skin Irrit. 2 Mild irritant (Analogous conclusion)
LD50 LD50	>5840 >2800-3100	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity)OECD 402 (Acute Dermal Toxicity)OECD 403 (Acute Inhalation Toxicity)OECD 404 (Acute Dermal Irritation/Corrosion)OECD 405 (Acute Eye Irritation/Corrosion)	Vapours Skin Irrit. 2 Mild irritant (Analogous conclusion)
LD50	>2800-3100	mg/kg	Rat Rat Rabbit Rabbit	Toxicity)OECD 402 (Acute Dermal Toxicity)OECD 403 (Acute Inhalation Toxicity)OECD 404 (Acute Dermal Irritation/Corrosion)OECD 405 (Acute Eye Irritation/Corrosion)	Skin Irrit. 2 Mild irritant (Analogous conclusion)
			Rat Rabbit Rabbit	Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion)	Skin Irrit. 2 Mild irritant (Analogous conclusion)
LC50	>20	mg/l/4h	Rabbit Rabbit	OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion)	Skin Irrit. 2 Mild irritant (Analogous conclusion)
			Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion)	Mild irritant (Analogous conclusion)
				OECD 405 (Acute Eye Irritation/Corrosion)	(Analogous conclusion)
			Guinea pig	OECD 406 (Skin	
				Sensitisation)	NO (SKIT COTTAC
				OECD 471 (Bacterial Reverse Mutation Test)	Analogous conclusion, Negative
					Negative
				OECD 414 (Prenatal Developmental Toxicity Study)	Analogous conclusion, Negative
					May cause drowsiness or dizziness., STOT SE 3, H336
					Yes
					drowsiness, unconsciousnes
					, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and

Distillates (petroleum), hydrotreated light naphthenic							
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	>5,53	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Analogous conclusion	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant	



B Page 12 of 23

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

Respiratory or skin			Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:			Currica pig	Sensitisation)	not cononizioning
Germ cell mutagenicity:				OECD 471 (Bacterial	Negative
				Reverse Mutation Test)	
Carcinogenicity:					Negative
Reproductive toxicity:				OECD 421	Negative
				(Reproduction/Developm	-
				ental Toxicity Screening	
				Test)	
Specific target organ toxicity -	NOAEL	100			No indications of
repeated exposure (STOT-RE):					such an effect.
Aspiration hazard:					Yes

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts							
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	Rat	OECD 402 (Acute Dermal Toxicity)		
Acute toxicity, by inhalation:	LD50	>1,9	mg/l/4h	Rat		Aerosol, Maximum achievable concentration., Analogous conclusion	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant	
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact)	
Germ cell mutagenicity:				Salmonella typhimurium	(Ámes-Test)	Negative	

Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts								
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	Rat	OECD 402 (Acute			
					Dermal Toxicity)			
Skin corrosion/irritation:				Rabbit		Not irritantEPA		
						OPPTS 870.2500		
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant		
					Irritation/Corrosion)			
Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin		
sensitisation:					Sensitisation)	contact)		

Reaction products of 2,5-dimercapto-1,3,4-thiadiazole, sodium salt, with 1-octanethiol and hydrogen peroxide							
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)		
Acute toxicity, by inhalation:	LC50	3,08	mg/l/4h	Rat	OECD 403 (Acute	Aerosol	
					Inhalation Toxicity)		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2	
					Dermal		
					Irritation/Corrosion)		
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant	
					Irritation/Corrosion)		



OB ______ Page 13 of 23

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

Respiratory or skin	Guinea pig	OECD 406 (Skin	Skin Sens. 1,
sensitisation:		Sensitisation)	Yes (skin
			contact)
Germ cell mutagenicity:	Mouse	OECD 490 (In vitro	Negative
		Thymidine Kinase	
		Mutation Test)	
Germ cell mutagenicity:	Salmonella	OECD 471 (Bacterial	Negative
	typhimurium	Reverse Mutation Test)	_
Symptoms:			eyes, reddened,
			watering eyes

Di-iso-octyl amino methyl tolutriazole							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	3313	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	(Draize-Test)	Skin Irrit. 2	
Serious eye damage/irritation:				Rabbit	(Draize-Test)	Not irritant	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin	
sensitisation:					Sensitisation)	contact)	
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro	Negative	
					Mammalian Cell Gene		
					Mutation Test)		
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative,	
					Mammalian	Analogous	
					Chromosome	conclusion	
					Aberration Test)		
Reproductive toxicity:				Rat	OECD 422 (Combined	Negative	
					Repeated Dose Tox.		
					Study with the		
					Reproduction/Developm.		
					Tox. Screening Test)		
Specific target organ toxicity -	NOAEL	45	mg/kg	Rat	OECD 422 (Combined		
repeated exposure (STOT-RE),			bw/d		Repeated Dose Tox.		
oral:					Study with the		
					Reproduction/Developm.		
					Tox. Screening Test)		

Benzenamine, N-phenyl-, react	ion products	with 2,4,4-trin	nethylpentene			
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	Rat	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Mild irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:					OECD 487 (In Vitro Mammalian Cell Micronucleus Test)	Negative
Reproductive toxicity:				Rat	OECD 443 (Extended One-Generation Reproductive Toxicity Study)	Possible risk of impaired fertility.
Specific target organ toxicity - single exposure (STOT-SE):						Negative



Specific target organ toxicity - repeated exposure (STOT-RI Hydrocarbons, C3-4 Toxicity / effect Germ cell mutagenicity: Specific target organ toxicity - repeated exposure (STOT-RI Symptoms:	E): Endpoint NOAEC	Value 10000	Unit	Rat Organism Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	Target organ(s) Thyroid, Target organ(s): liver
Toxicity / effect Germ cell mutagenicity: Specific target organ toxicity repeated exposure (STOT-RI	NOAEC					-
Toxicity / effect Germ cell mutagenicity: Specific target organ toxicity repeated exposure (STOT-RI	NOAEC					
Specific target organ toxicity repeated exposure (STOT-RI		10000	ppm	Rat		Notes
Symptoms:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 413 (Subchronic Inhalation Toxicity - 90- Day Study)	Negative
						malaise, nause dizziness, mucous membrane irritation, drowsiness, unconsciousnes
11.2. Information on	other hazaı	ds				
Marine Multispray						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properti	es:					Does not apply to mixtures.
Other information:						No other relevant information available on adverse effects on health.
Distillates (petroleum), hyd	otreated light n	anhthenic				
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Other information:	NOAEL	>2000	mg/kg	Rat	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	
Benzenamine, N-phenyl-, re	action products	with 2.4.4-trin	nethvlpentene			
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting propertie						No
	S	ECTION 1	2: Ecologi	cal information	tion	
Possibly more information on Marine Multispray	environmental et	fects, see Sect	ion 2.1 (classific	cation).		
	ndpoint	Time Valu	le 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.



- GB			
Page 15 of 23 Safety data sheet according to Re Revision date / version: 07.12.202 Replacing version dated / version: Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray	2 / 0029	nnex II	
10.0 Develotence and			
12.2. Persistence and degradability:			The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or a the request of
			a detergent manufacturer.
12.3. Bioaccumulative potential:			n.d.a.
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.

oxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	28d	2,045	mg/l	Oncorhynchus		
				-	mykiss		
12.1. Toxicity to fish:	NOELR	28d	2,04	mg/l	Salmo gairdneri		
12.1. Toxicity to fish:	LC50	96h	11,4	mg/l	Oncorhynchus	OECD 203 (Fish,	
				_	mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	LL50	96h	11,4	mg/l	Salmo gairdneri	OECD 203 (Fish,	
						Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	3	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOELR	48h	2,1	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,17	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	30-100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	



Page 16 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

œ.

12.2. Persistence and		28d	81	%	OECD 301 F	Readily
degradability:				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		biodegradable
					Manometric	
					Respirometry Test)	
12.3. Bioaccumulative potential:						Concentration in organisms oossible.
12.3. Bioaccumulative potential:	BCF		242-253			
12.4. Mobility in soil:					l g	Adsorption in ground., Product s slightly volatile.
12.5. Results of PBT					۸ ا	No PBT
and vPvB assessment						substance, No /PvB substance
Other information:	AOX		0	%		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LL50	96h	>100	mg/l	Pimephales	OECD 203 (Fish,	
					promelas	Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	NOELR	14d	>1000	mg/l	Oncorhynchus	QSAR	
					mykiss		
12.1. Toxicity to daphnia:	EL50	48h	>10000	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	10	%			Not readily
degradability:							biodegradable
12.2. Persistence and							Mechanical
degradability:							precipitation
							possible.
12.2. Persistence and		28d	31	%	activated sludge	OECD 301 F	Not readily but
degradability:						(Ready	inherent
						Biodegradability -	biodegradable.
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative	Log Pow		6,0				A notable
potential:							biological
							accumulation
							potential has to
							be expected
	5.05						(LogPow > 3).
12.3. Bioaccumulative potential:	BCF		<500				Low
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Water solubility:							Insoluble

Benzenesulfonic acid, d	i-C10-14-alkyl d	erivs., calci	um salts				
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	



Page 17 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

œ.

12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EL50	72h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	8	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	BCF		70,8				Not to be expected
12.3. Bioaccumulative potential:	Log Kow		26,22				calculated value20°C
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Benzene, mono-C10-14-	alkyl derivs., fr	actionation	bottoms, in	termediate	cut, sulfonated, sodiu	m salts	
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Brachydanio rerio	OECD 203 (Fish,	
						Acute Toxicity	
12.1 Tovicity to fichy	LC50	96h	>1000		Dimonholoo	Test)	
12.1. Toxicity to fish:	LC50	9011	>1000	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity	
					promeias	Test)	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202	
				_		(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.2. Persistence and		28d	8	%	activated sludge	OECD 301 D	Not
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle Test)	
12.3. Bioaccumulative	Log Pow		6,75				A notable
potential:							biological
							accumulation
							potential has to
							be expected
							(LogPow > 3).

Reaction products of 2,5	Reaction products of 2,5-dimercapto-1,3,4-thiadiazole, sodium salt, with 1-octanethiol and hydrogen peroxide										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	LC50	96h	100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)					
12.1. Toxicity to daphnia:	EL50	48h	45	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)					
12.1. Toxicity to algae:	EC50	72h	100	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)					



Page 18 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

œ.

					1	1	
12.2. Persistence and degradability:		28d	0	%		OECD 301 B (Ready	
aogradaaniyi						Biodegradability -	
						Co2 Evolution	
						Test)	
12.3. Bioaccumulative	Log Pow		>12-<14			OECD 117	High
potential:						(Partition	
						Coefficient (n-	
						octanol/water) -	
						HPLC method)	
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209	
,				0	0	(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	
Other information:							Does not contai
							any organically
							bound halogens
							which can
							contribute to the
							AOX value in
							waste water.

Di-iso-octyl amino methy	Di-iso-octyl amino methyl tolutriazole										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	LC50	96h	1,3	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)					
12.1. Toxicity to daphnia:	EC50	48h	2,05	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)					
12.1. Toxicity to algae:	EC50	72h	0,976	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)					
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,658	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)					
12.2. Persistence and degradability:		28d	<10	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradableCO 2 formation of the theoretical value				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance				

	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Toxicity / effect Endpoint Time Value Unit Organism Test method Notes												
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Notes						
12.1. Toxicity to daphnia:	EC50	48h	51	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)							
12.1. Toxicity to daphnia:	EC10	21d	1,69	mg/l	Daphnia magna	OEĆD 211 (Daphnia magna Reproduction Test)							



Page 19 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

GB

12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:	Log Koc		3,8			,	calculated value
12.3. Bioaccumulative potential:	BCF	42d	1730		Cyprinus caprio		Analogous conclusion
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.6. Endocrine disrupting properties:							No
Toxicity to bacteria:	EC20	3h	~100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to annelids:	EC10	56d	259	mg/kg	Eisenia foetida	OECD 222 (Earthworm Reproduction Test (Eisenia fetida/Eisenia andrei))	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and							Biodegradable
degradability:							-
12.3. Bioaccumulative							A notable
potential:							biological
							accumulation
							potential is not to
							be expected
							(LogPow 1-3).
12.4. Mobility in soil:							Product is
-							slightly volatile.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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)

16 05 04 gases in pressure containers (including halons) containing hazardous substances Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations.

Recommendation: Return to manufacturer with residual pressure.

Do not perforate, cut up or weld uncleaned container.

15 01 04 metallic packaging



Page 20 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

SECTION 14: Transport information

General statements

œ

Transport by road/by rail (ADR/RID)		
14.1. UN number or ID number:	1950	
14.2. UN proper shipping name:	1000	
UN 1950 AEROSOLS		A
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	-	•
14.5. Environmental hazards:	environmentally hazardous	< <u>*</u> >
Tunnel restriction code:	D	\sim
Classification code:	5F	
LQ:	1 L	
Transport category:	2	
Transport by sea (IMDG-code)		
14.1. UN number or ID number:	1950	
14.2. UN proper shipping name:		•
UN 1950 AEROSOLS (HYDROCARBONS, C6-C7)		
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	-	- AL
14.5. Environmental hazards:	environmentally hazardous	
Marine Pollutant:	Yes	\checkmark
EmS:	F-D, S-U	
Transport by air (IATA)		
14.1. UN number or ID number:	1950	
14.2. UN proper shipping name:		•
UN 1950 Aerosols, flammable		
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	- N 2 11	
14.5. Environmental hazards:	Not applicable	
14.6. Special precautions for user		
Persons employed in transporting dangerous goods must be trained		
All persons involved in transporting must observe safety regulation	IS.	
Precautions must be taken to prevent damage.		
14.7. Maritime transport in bulk according to	IMO instruments	
Freighted as packaged goods rather than in bulk, therefore not ap	plicable.	
Minimum amount regulations have not been taken into account.		
Danger code and packing code on request.		
Comply with special provisions.		

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Regulation (EC) No 1907/2006, Annex XVII

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Comply with trade association/occupational health regulations.

Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
E2		200	500



Page 21 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

P3a

ആ

11.1 150 (netto) 500 (netto) The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

70 %

Directive 2010/75/EU (VOC): **REGULATION (EC) No 648/2004**

30 % and more aliphatic hydrocarbons less than 5 % anionic surfactants non-ionic surfactants

perfumes

National rules/regulation for the compliance with maximum quantities with regard to phosphates and or phosphorous compounds must be observed and complied with.

Observe incident regulations.

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:

2, 3, 4, 7, 8, 9, 11, 12, 15

Employee training in handling dangerous goods is required. 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
Skin Irrit. 2, H315	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

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).

H361f Suspected of damaging fertility.

H225 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Skin Irrit. — Skin irritation Asp. Tox. — Aspiration hazard



Page 22 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.12.2022 / 0029 Replacing version dated / version: 01.11.2021 / 0028 Valid from: 07.12.2022 PDF print date: 15.05.2023 Marine Multispray

STOT SE — Specific target organ toxicity - single exposure - narcotic effects Aquatic Chronic — Hazardous to the aquatic environment - chronic Aerosol — Aerosols Flam. Liq. — Flammable liquid Skin Sens. — Skin sensitization Acute Tox. — Acute toxicity - inhalation Aquatic Acute — Hazardous to the aquatic environment - acute

Repr. — Reproductive toxicity

ആ

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 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) BCF **Bioconcentration factor** 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 DOC Dissolved organic carbon dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.q. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) FC 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 EINECS European Inventory of Existing Commercial Chemical Substances European List of Notified Chemical Substances ELINCS EN **European Norms** FPA 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 EU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number gen. general Globally Harmonized System of Classification and Labelling of Chemicals GHS



-@
Page 23 of 23
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 07.12.2022 / 0029
Replacing version dated / version: 01.11.2021 / 0028
Valid from: 07.12.2022
PDF print date: 15.05.2023
Marine Multispray
Manie Malispray
GWP Global warming potential
Koc Adsorption coefficient of organic carbon in the soil
Kow octanol-water partition coefficient
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
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)
Log Koc Logarithm of adsorption coefficient of organic carbon in the soil
Log Kow, Log Pow Logarithm of octanol-water partition coefficient
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available
NIOSH National Institute for Occupational Safety and Health (USA)
NLP 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
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
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 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: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.