

Safety Data Sheet

according to Regulation (EC) No 1907/2006

RHEOSEPT-FD plus

Revision date: 28.07.2020

Product code: 20502

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

RHEOSEPT-FD plus

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Liquid surface disinfection concentrate without the addition of aldehyde

1.3. Details of the supplier of the safety data sheet

Company name:	NW-Chemie GmbH	
Street:	Langbaughstr. 15	
Place:	D-53842 Troisdorf	
Telephone:	+49 2241-3923-0	Telefax: +49 2241-3923-90
e-mail:	info@rheosol.de	
Contact person:	Dr. Friedrichs (MSDS qualified person)	Telephone: +49 2241-3923-0
e-mail:	sicherheit@rheosol.de	
Internet:	www.rheosol.de	
Responsible Department:	Produktsicherheit	

1.4. Emergency telephone number: Giftnotruf Berlin (Germany): +49 30 30686 700

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Didecyldimethylammonium chloride

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

quaternary ammonium compounds: Alkyl (C12-16) dimethylbenzylammonium chloride

Signal word: Danger**Pictograms:****Hazard statements**

H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see General information on this label).

Additional advice on labelling

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	5 - < 10 %
	200-661-7	01-2119457558-25
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
7173-51-5	Didecyldimethylammonium chloride	1 - < 5 %
	230-525-2	01-2119945987-15
	Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 2; H301 H314 H318 H400 H411	
2372-82-9	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	1 - < 5 %
	219-145-8	01-2119980592-29
	Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, STOT RE 2, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 1); H301 H314 H318 H373 H400 H410	
68424-85-1	quartary amonium compounds: Alkyl (C12-16) dimethylbenzylammonium chloride	1 - < 5 %
	270-325-2	01-2119965180-41
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 10); H302 H314 H400	

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

Further Information

Note: The danger characteristics refer to the properties of the neat substances.

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Medical treatment necessary. In case of inhaling spray mist, consult a physician.

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Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk. Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Seek medical attention if problems persist.

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

Subsequent observance for pneumonia and lung oedema. Prolonged and repeated inhalation of decomposition products may cause a pulmonary oedema.

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

Treat symptomatically. Symptomatic treatment and supporting therapy is recommended.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. waterspray, foam, CO₂, powder

Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air. In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. Use appropriate respiratory protection. In case of fire and/or explosion do not breathe fumes.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings. Contaminated fire-fighting water must be collected separately.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Consider conventional precautions for chemical handling.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Take up mechanically.

Suitable material for taking up: Universal binding agent.

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Treat the recovered material as prescribed in the section on waste disposal.

Wash with plenty of water.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes.

Do not breathe gas/fumes/vapour/spray.

When using do not eat, drink or smoke.

Advice on protection against fire and explosion

No special measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep container tightly closed in a cool, well-ventilated place.

Protect against:

UV-radiation/sunlight.

frost.

Unsuitable materials for Container: metal.

Hints on joint storage

Do not store together with:

Reducing agents.

Zinc.

iron.

amines.

Aluminium.

Acid.

Further information on storage conditions

Keep only in the original container.

Recommended storage temperature: 5-30°C

7.3. Specific end use(s)

No special handling advices are necessary.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
111-46-6	2,2'-Oxydiethanol	23	101		TWA (8 h)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	WEL

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	500 mg/m ³
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	89 mg/m ³
7173-51-5	Didecyldimethylammonium chloride			
Worker DNEL, long-term		inhalation	systemic	18,2 mg/m ³
Worker DNEL, long-term		dermal	systemic	8,6 mg/kg bw/day

PNEC values

CAS No	Substance	Value
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	
Environmental compartment		
Freshwater		140,9 mg/l
Freshwater (intermittent releases)		140,9 mg/l
Marine water		140,9 mg/l
Freshwater sediment		552 mg/kg
Marine sediment		552 mg/kg
Secondary poisoning		160 mg/kg
Micro-organisms in sewage treatment plants (STP)		2251 mg/l
Soil		28 mg/kg
7173-51-5	Didecyldimethylammonium chloride	
Freshwater		0,002 mg/l
Freshwater (intermittent releases)		0,00029 mg/l
Marine water		0,0002 mg/l
Freshwater sediment		2,82 mg/kg
Marine sediment		0,282 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,595 mg/l

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Avoid leakages in dosage systems

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. No special measures are necessary.

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Eye/face protection

Suitable eye protection: goggles. Tightly sealed safety glasses.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves.

penetration time (maximum wearing period): 8 h

Suitable material:

NR (Natural rubber (Caoutchouc), Natural latex). 0,5 mm

CR (polychloroprenes, Chloroprene rubber). 0,5 mm

NBR (Nitrile rubber). 0,35 mm

FKM (fluororubber). 0,4 mm

PVC (Polyvinyl chloride). 0,5 mm

Before using check leak tightness / impermeability.

Skin protection

Protective apron.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Avoid the formation of aerosol. Do not breathe aerosol. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Environmental exposure controls

Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	perfumed
pH-Value (at 20 °C):	11

Changes in the physical state

Melting point:	not applicable
Initial boiling point and boiling range:	92 °C
Sublimation point:	not applicable
Softening point:	not applicable
Pour point:	not applicable
Flash point:	not determined
Sustaining combustion:	Not sustaining combustion

Flammability

Solid:	not applicable
Gas:	not applicable

Explosive properties

The product is not: Explosive.

Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	not applicable

Auto-ignition temperature

Solid:	not applicable
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Gas: not applicable
Decomposition temperature: not determined

Oxidizing properties

Not oxidizing.

Vapour pressure: 23,37 hPa
(at 20 °C)Vapour pressure: 123,3 hPa
(at 50 °C)Density (at 20 °C): 0,98 g/cm³

Water solubility: complete miscible

Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not applicable

SECTION 10: Stability and reactivity**10.1. Reactivity**

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reactions with:

Oxidizing agents.

Etchant and acids

10.4. Conditions to avoid

Do not mix with acids.

Heat

Protect against direct sunlight.

10.5. Incompatible materials

Exothermic reaction with acids.

10.6. Hazardous decomposition products

No dangerous decomposition products are known

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

Based on available data, the classification criteria are not met.

Acute toxicity

Based on available data, the classification criteria are not met.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 30 mg/l			
7173-51-5	Didecyldimethylammonium chloride				
	oral	LD50 238 mg/kg	Rat	OECD 401	
	dermal	LD50 3342 mg/kg	Rabbit		
2372-82-9	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine				
	oral	LD50 261 mg/kg	Rat		OECD 401
	dermal	LD50 > 600 mg/kg	Rat		OECD 402
68424-85-1	quaternary ammonium compounds: Alkyl (C12-16) dimethylbenzylammonium chloride				
	oral	LD50 795 mg/kg	Rat		
	dermal	LD50 3342 mg/kg	Rabbit		

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Practical experience**Observations relevant to classification**

not known

Other observations

not known

SECTION 12: Ecological information**12.1. Toxicity**

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Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Leuciscus idus		
	Acute algae toxicity	ErC50 >1000 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 13299 mg/l	48 h	Daphnia magna		
7173-51-5	Didecyldimethylammonium chloride					
	Acute fish toxicity	LC50 0,19 mg/l	96 h	Pimephales promelas		US-EPA
	Acute algae toxicity	ErC50 0,026 mg/l	96 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 0,062 mg/l	48 h	Daphnia magna		EPA-FIFRA
	Fish toxicity	NOEC 0,032 mg/l	34 d	Danio rerio		OECD 210
	Algae toxicity	NOEC >0,01-0,1 mg/l	3 d	Pseudokirchneriella subcapitata	OECD 201	
	Crustacea toxicity	NOEC >0,01-0,1 mg/l	21 d	Daphnia		OECD 211
2372-82-9	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine					
	Acute fish toxicity	LC50 0,68 mg/l	96 h	Oncorhynchus mykiss		OECD 203
	Acute algae toxicity	ErC50 0,054 mg/l	96 h	Desmodesmus subspicatus		OECD 201
	Acute crustacea toxicity	EC50 0,077 mg/l	48 h	Daphnia magna		OECD 202
	Algae toxicity	NOEC > 0,001 - 0,01 mg/l	3 d	Selenastrum capricornutum		OECD 201
	Crustacea toxicity	NOEC 0,024 mg/l	21 d	Daphnia magna		OECD 211
	Acute bacteria toxicity	(42,2 mg/l)	0,5 h			OECD 209
68424-85-1	quaternary ammonium compounds: Alkyl (C12-16) dimethylbenzylammonium chloride					
	Acute fish toxicity	LC50 1,7 mg/l	96 h	rainbow trout	OECD 203	
	Acute algae toxicity	ErC50 0,06 mg/l	96 h	Selenastrum capricornutum	OECD 201	
	Acute crustacea toxicity	EC50 0,03 mg/l	48 h	Daphnia magna	OECD 302	

12.2. Persistence and degradability

The surfactants contained in the product are biodegradable according to the requirements of the Detergent Directive 648/2004/EC.

Readily biodegradable (according to OECD criteria). OECD 211

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CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	Biological degradability	53 %	5		
	Readily biodegradable.				
7173-51-5	Didecyldimethylammonium chloride				
	Die-Away Test	93,3	28		
	OECD Confirmatory-Test	91	24		OECD 303 A
2372-82-9	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine				
	Biological degradability	79 %	28		OECD 301 D
	Easily biodegradable.				
	OECD Confirmatory-Test	96	15		OECD 303 A
	Zahn-Wellens Test	91	28		OECD 301D

12.3. Bioaccumulative potential

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05
7173-51-5	Didecyldimethylammonium chloride	<3
2372-82-9	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	-0,7
68424-85-1	quartary amonium compounds: Alkyl (C12-16) dimethylbenzylammonium chloride	0,5-1,58

BCF

CAS No	Chemical name	BCF	Species	Source
7173-51-5	Didecyldimethylammonium chloride	2,1		

12.4. Mobility in soil

There are no data available on the preparation/mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

May cause long-term adverse effects in the environment.
Environmental properties

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Prevent release of undiluted product into waters, ground or the drainage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Dispose of waste according to applicable legislation. Hand over to officially registered waste disposal company.

List of Wastes Code - residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

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Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Completely emptied packings can be re-cycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 1903
14.2. UN proper shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C9
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Inland waterways transport (ADN)

14.1. UN number:	UN 1903
14.2. UN proper shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C9
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1

Marine transport (IMDG)

14.1. UN number:	UN 1903
14.2. UN proper shipping name:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Special Provisions:	223, 274
Limited quantity:	5 L

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Excepted quantity: E1
 EmS: F-A, S-B
 Segregation group: ammonium compounds

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1903
14.2. UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
 (didecyldimethylammonium chloride)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8



Special Provisions: A3 A803
 Limited quantity Passenger: 1 L
 Passenger LQ: Y841
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 852
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 856
 IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: didecyldimethylammonium chloride
 N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine
 quarternary ammonium compounds: Alkyl (C12-16) dimethylbenzylammonium chloride

14.6. Special precautions for user

Warning: strongly corrosive.

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

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

2010/75/EU (VOC): 6,059 % (59,377 g/l)
 2004/42/EC (VOC): 7,057 % (69,157 g/l)
 Information according to 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
 Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
 propan-2-ol; isopropyl alcohol; isopropanol

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Didecyldimethylammonium chloride

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 14,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

P: Marine Pollutant

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

@1602.B016012

Safety Data Sheet

according to Regulation (EC) No 1907/2006

RHEOSEPT-FD plus

Revision date: 28.07.2020

Product code: 20502

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Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Notice the directions for use on the label. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)