

according to Regulation (EC) No 1907/2006

RHEOSEPT-SD plus citro

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

1.1. Product identifier

RHEOSEPT-SD plus citro

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

Use of the substance/mixture

Alcohol-based fast-acting disinfectant with citrus scent

1.3. Details of the supplier of the safety data sheet

Company name: NW-Chemie GmbH Street: Langbaurghstr. 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 Telephone: +49 2241-3923-0

person)

e-mail: sicherheit@rheosol.de
Internet: www.rheosol.de
Responsible Department: Produktsicherheit

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

number:

Further Information

This safety data sheet replaces the former safety data sheet.

The affected sections are listed in section 16.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Flammable liquid and vapour. Causes serious eye irritation.

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

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:





Hazard statements

H226 Flammable liquid and vapour. H319 Causes serious eye irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing



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protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P235 Store in a well-ventilated place. Keep cool.

Additional advice on labelling

Classification 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			
64-17-5	ethanol; ethyl alcohol			35 - < 40 %
	200-578-6	603-002-00-5		
	Flam. Liq. 2; H225	·	-	
67-63-0	propan-2-ol; isopropyl alcohol; is	10 - < 15 %		
	200-661-7		01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT S	SE 3; H225 H319 H336		
78-93-3	butanone; ethyl methyl ketone			< 1 %
	201-159-0	606-002-00-3		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

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

Specific Conc. Limits. M-factors and ATE

CAS No	EC No	Chemical name	Quantity			
	Specific Conc.	Limits, M-factors and ATE				
64-17-5	200-578-6	ethanol; ethyl alcohol	35 - < 40 %			
	inhalation: LC	inhalation: LC50 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg				
67-63-0	200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	10 - < 15 %			
	inhalation: LC	50 = 30 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg				
78-93-3	201-159-0	butanone; ethyl methyl ketone	< 1 %			
	dermal: LD50 = 6.400 - 8.000 mg/kg; oral: LD50 = 3.300 mg/kg					

Further Information

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. Seek medical attention if problems persist.



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After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eves

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. Seek medical attention if problems persist.

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder. Alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Remove all sources of ignition. 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 uncontrolled discharge of product into the environment. Explosion risk. 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

Other information

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

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



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Advice on safe handling

Do not breathe gas/fumes/vapour/spray.

Consider conventional precautions for chemical handling.

Advice on protection against fire and explosion

 $\label{thm:continuous} \text{Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges}\,.$

Vapours can form explosive mixtures with air. The product is: Flammable.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed in a cool, well-ventilated place.

Protect against:

UV-radiation/sunlight.

frost.

Hints on joint storage

Do not store together with: Pyrophoric or self-heating substances.

7.3. Specific end use(s)

not known

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CA	AS No	Substance	Parameter	Value	Test material	Sampling time
78	-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

DNEL/DMEL values

CAS No	Substance				
DNEL type		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/m³	
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/m³	



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PNEC values

CAS No	Substance	
Environmen	tal compartment	Value
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	
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

8.2. Exposure controls





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.

Eye/face protection

Suitable eye protection: goggles.

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.

Skin protection

not applicable

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: lemonlike

pH-Value: 3

Changes in the physical state

Melting point: < 80 °C
Boiling point or initial boiling point and 78 °C

boiling range:



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Sublimation point:not knownSoftening point:not applicablePour point:not applicableFlash point:24 °C

Sustaining combustion: Not sustaining combustion

Flammability

Solid/liquid: not applicable
Gas: not applicable

Explosive properties

The product is not: Explosive.

Lower explosion limits: 2 vol. %
Upper explosion limits: 15 vol. %
Auto-ignition temperature: 400 °C

Self-ignition temperature

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

Oxidizing properties

@0902.B091060

Vapour pressure: 58 hPa

(at 20 °C)

Vapour pressure: 293 hPa

(at 50 °C)

Density: 0,91 g/cm³
Water solubility: complete miscible

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Relative vapour density:

Evaporation rate:

not determined
not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable. The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Incompatibility with oxidizing agents.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Alkali metals. Alkaline earth metals. Oxidizing agents. Sulphuric acid and sulphurous acid. Nitric acid.



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10.6. Hazardous decomposition products

Prolonged exposure to direct and intenisve sunlight may form explosive peroxides in the product

SECTION 11: Toxicological information

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

Acute toxicity

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

For oral intoxication by isopropanol of humans several symptoms are known: sickness, vomitus, stomach ache, gastritis, Reduction of blood pressure, bodytemperature drop, coma, respiratory paralysis. 0,5 L of 70% V/V Isopropanol mixture may be lethal. Source: GESTIS substance data base of the BG Institute for Occupational Safety and IFA.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
64-17-5	ethanol; ethyl alcohol					
	oral	LD50 mg/kg	6200	Rat	IUCLID	
	inhalation (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS	
67-63-0	propan-2-ol; isopropyl al	cohol; isopro	panol			
	oral	LD50 mg/kg	>2000	Rat		
	dermal	LD50 mg/kg	>2000	Rabbit		
	inhalation (4 h) vapour	LC50	30 mg/l			
78-93-3	butanone; ethyl methyl k	etone				
	oral	LD50 mg/kg	3.300	Rat		
	dermal	LD50 8.000 mg/k	6.400 -	Rabbit		

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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

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

Additional information on tests

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

Practical experience

not known



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SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
64-17-5	ethanol; ethyl alcohol						
	Acute crustacea toxicity	EC50 92 14221 mg/l	68 -	48 h	Daphnia magna	IUCLID	
67-63-0	propan-2-ol; isopropyl alc	ohol; isopropanol					
	Acute fish toxicity	LC50 >1 mg/l	00	96 h	Leuciscus idus		
	Acute algae toxicity	ErC50 >1 mg/l	000		Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 13. mg/l	299	48 h	Daphnia magna		
78-93-3	butanone; ethyl methyl ke	tone					
	Acute fish toxicity	LC50 3.2 mg/l	220	96 h	Pimephales promelas		
	Acute crustacea toxicity	EC50 5.0 mg/l	091	48 h	Daphnia magna		

12.2. Persistence and degradability

The product has not been tested

1110	The product has not been tested:				
CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation		-		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	Biological degradability	53 %	5		
	Readily biodegradable.		-		

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol; ethyl alcohol	-0,31
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

There are no data available on the mixture itself.

12.7. Other adverse effects

There are no data available on the mixture itself.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods



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Disposal recommendations

Do not allow to enter into surface water or drains. 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

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled. Completely emptied packings can be re-cycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1987

14.2. UN proper shipping name: ALCOHOLS, N.O.S. (ethanol, ethyl alcoholpropan-2-ol; isopropyl alcohol;

isopropanol)

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1
Special Provisions: 274 601
Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 30
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1987

14.2. UN proper shipping name: ALCOHOLS, N.O.S. (ethanol, ethyl alcoholpropan-2-ol; isopropyl alcohol;

isopropanol)

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1
Special Provisions: 274 601
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 1987

14.2. UN proper shipping name: ALCOHOLS, N.O.S. (ethanol, ethyl alcoholpropan-2-ol; isopropyl alcohol;

isopropanol)

14.3. Transport hazard class(es):314.4. Packing group:III



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Hazard label: 3



Special Provisions:

Limited quantity:

Excepted quantity:

EMS:

F-E, S-D

Segregation group:

223, 274

5 L

E1

Ensemble E1

F-E, S-D

non-applicable

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1987

14.2. UN proper shipping name: ALCOHOLS, N.O.S. (ethanol, ethyl alcoholpropan-2-ol; isopropyl alcohol;

isopropanol)

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3 A180

10 L

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger:355IATA-max. quantity - Passenger:60 LIATA-packing instructions - Cargo:366IATA-max. quantity - Cargo:220 L

14.6. Special precautions for user

Warning: Combustible liquid.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

(SEVESO III):

2010/75/EU (VOC): 50,328 % (457,98 g/l)
2004/42/EC (VOC): 50,328 % (457,98 g/l)
Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly 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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SECTION 16: Other information

Changes

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

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

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu



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

Classification	Classification procedure	
Flam. Liq. 3; H226	On basis of test data	
Eye Irrit. 2; H319	Calculation method	

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

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. Follow the instructions for use on the label.

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