

according to Regulation (EC) No 1907/2006

RHEOSEPT-D+ ultra

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

1.1. Product identifier

RHEOSEPT-D+ ultra

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

Use of the substance/mixture

Disinfectant for use in case of an officially ordered decontamination

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:

Acute toxicity: Acute Tox. 3 Acute toxicity: Acute Tox. 3 Acute toxicity: Acute Tox. 2

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1 Respiratory or skin sensitisation: Skin Sens. 1

Germ cell mutagenicity: Muta. 2 Carcinogenicity: Carc. 1B

Specific target organ toxicity - single exposure: STOT SE 1

Hazard Statements:

Toxic if swallowed or in contact with skin.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Fatal if inhaled.

Suspected of causing genetic defects.

May cause cancer.

Causes damage to organs.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

formaldehyde methanol

Signal word: Danger



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Pictograms:







Hazard statements

H301+H311 Toxic if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H370 Causes damage to organs.

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.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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.

Additional advice on labelling

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

aqueous mixture of formaldeylde and methanol

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regulat	on (EC) No. 1272/2008 [CLP]	•		
50-00-0	formaldehyde			35 - < 40 %	
	200-001-8		01-2119488953-20		
	Carc. 1B, Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1; H350 H341 H331 H311 H301 H314 H317				
67-56-1	methanol		10 - < 15 %		
	200-659-6	603-001-00-X	01-2119433307-44		
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370				

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

Further Information

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!



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Remove contaminated clothing immediatley and dispose off safely.

Symptoms can occure delayed.

Call a physician immediately.

After inhalation

Provide fresh air.

In case of dyspnoea inhale oxygen.

Call a physician immediately.

After contact with skin

Wash immediately and abundantly with water.

Call a physician in any case!

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.

After ingestion

Rinse mouth immediately and drink plenty of water.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Do NOT induce vomiting.

Call a physician immediately.

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

Irritations

Corrosive injuries

Allergic symptoms.

Cough

Dyspnoea

Drowsiness

Dizziness

Headache Spasms

Unconsciousness

Danger of irreversible eye damage (Danger of blindness).

Pulmonary oedema

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

waterspray, foam, CO2, powder

Adapt extinguishing measures to enviroment.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Mixture with combustible components. Can form explosive mixtures with air on intense heating.

In case of fire may be liberated:

formaldehyde fumes

Carbon monoxide (CO).

Carbon dioxide (CO2).

5.3. Advice for firefighters

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

Wear full chemical protective clothing.

Additional information

Cool enclosed container close to fire source with water.

SECTION 6: Accidental release measures





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6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Keep away unprotected persons.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Avoid contact with skin and eyes.

6.2. Environmental precautions

Use water spray jet to minimise or disperse vapours.

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Collect mechanically or with binding agent.

Dispose contaminated material as described in section 13.

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

Handle and open container with care.

Keep container, equipment and worklpace clean.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in original container.

Advice on storage compatibility

Store separated from groceries.

Do not store together with: Oxidising agent

Further information on storage conditions

Keep container tightly closed. Keep in a cool, well-ventilated place.

Protect form light influence. storage temperature: 15-25 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
50-00-0	Formaldehyde	2	2.5		TWA (8 h)	WEL
		2	2.5		STEL (15 min)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
50-00-0	formaldehyde			
Worker DNEL,	long-term	dermal	systemic	240 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	0,5 mg/m³
Worker DNEL,	acute	inhalation	systemic	1 mg/m³
Consumer DN	EL, long-term	oral	systemic	4,1 mg/kg bw/day
Consumer DN	EL, long-term	dermal	systemic	102 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	3,2 mg/m³
Consumer DN	EL, long-term	dermal	local	0,012 mg/person/day
Consumer DN	EL, long-term	inhalation	local	0,1 mg/m³
67-56-1	methanol			
Worker DNEL,	long-term	dermal	systemic	40 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	260 mg/m³
Worker DNEL,	long-term	inhalation	local	260 mg/m³
Worker DNEL,	acute	dermal	systemic	40 mg/kg bw/day
Worker DNEL,	acute	inhalation	systemic	260 mg/m ³
Worker DNEL,	acute	inhalation	local	260 mg/m ³
Consumer DN	EL, long-term	oral	systemic	8 mg/kg bw/day
Consumer DN	EL, long-term	dermal	systemic	8 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	50 mg/m³
Consumer DN	EL, long-term	inhalation	local	50 mg/m³
Consumer DN	EL, acute	oral	systemic	8 mg/kg bw/day
Consumer DN	EL, acute	dermal	systemic	8 mg/kg bw/day
Consumer DN	EL, acute	inhalation	systemic	50 mg/m³
Consumer DN	EL, acute	inhalation	local	50 mg/m³



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PNEC values

CAS No	Substance	
Environment	al compartment	Value
50-00-0	formaldehyde	·
Freshwater		0,47 mg/l
Freshwater (intermittent releases)	4,7 mg/l
Marine wate	r	0,47 mg/l
Freshwater	sediment	2,44 mg/kg
Marine sedir	nent	2,44 mg/kg
Micro-organi	sms in sewage treatment plants (STP)	0,19 mg/kg
Soil		0,21 mg/kg
67-56-1	methanol	
Freshwater		154 mg/l
Marine wate	r	15 mg/l
Freshwater sediment		570 mg/kg
Micro-organi	sms in sewage treatment plants (STP)	100 mg/l
Soil		24 mg/kg

8.2. Exposure controls

Protective and hygiene measures

Do not eat, drink or smoke at the workplace.

Take off immediately all contaminated clothing.

Do not breathe in fumes and aerosol.

Avoid contact with eyes and skin.

Thorough skin-cleansing after handling the product.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

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

impermeable protective clothes

Respiratory protection

Necessary in case of fumes/aerosols.

Combination filter: B-(P3)

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless

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Odour: pungent

pH-Value (at 20 °C): 3-4

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

No data available.

Softening point:

No data available.

Pour point:

No data available.

Flash point:

Ca. 66 °C

Sustaining combustion:

Not sustaining combustion

Lower explosion limits: 7 vol. %
Upper explosion limits: 73 vol. %
Ignition temperature: 380 °C

Auto-ignition temperature

Solid: No data available. Gas: No data available. No data available. Decomposition temperature: No data available. Vapour pressure: No data available. Vapour pressure: Density (at 20 °C): 1,1 g/cm³ Water solubility: completely miscible Viscosity / dynamic: 2,5 mPa·s (at 20 °C)

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Danger of polymerisation

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Violent reaction with:

Oxidizing agents, strong.

base

Phenol

Formic acid

Nitrogendioxid

Hydrogen peroxide

Nitric acid

10.4. Conditions to avoid

Heating

10.5. Incompatible materials

Steel Copper

10.6. Hazardous decomposition products

In case of fire: SECTION 5: Firefighting measures



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SECTION 11: Toxicological information

11.1. Information on toxicological effects

ATEmix calculated

ATE (oral) 222,2 mg/kg; ATE (dermal) 613,6 mg/kg; ATE (inhalative vapour) 1,57 mg/l; ATE (inhalative aerosol) 1,111 mg/l

Acute toxicity

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
50-00-0	formaldehyde	formaldehyde					
	oral	LD50 mg/kg	100	Rat	TOXNET		
	dermal	LD50 mg/kg	270	Rabbit	IUCLID		
	inhalative (4 h) vapour	LC50 mg/l	0,578	Rat	IUCLID		
	inhalative aerosol	ATE	0,5 mg/l				
67-56-1	methanol						
	oral	LD50 mg/kg	5628	Rat	IUCLID		
	dermal	LD50 mg/kg	15800	Rabbit	TOXNET		
	inhalative (4 h) vapour	LC50	85,3 mg/l	Rat	IUCLID		
	inhalative aerosol	ATE	0,5 mg/l				

Practical experience

Observations relevant to classification

systemic impact:

Headache

Dizziness Vomiting

Drowsiness

Blood pressure drop

Agitation

Spasms

Anaesthetic state

Liver and kidney damage

coma

Death

Symptoms can occure delayed.

SECTION 12: Ecological information

12.1. Toxicity



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
50-00-0	formaldehyde						
	Acute fish toxicity	LC50	41 mg/l	96 h	Brachydanio rerio	IUCLID	
	Acute crustacea toxicity	EC50	42 mg/l	48 h	Daphnia magna	IUCLID	
67-56-1	methanol						
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	ECOTOX DATABASE	
	Acute crustacea toxicity	EC50 mg/l	>10000	48 h	Daphnia magna	IUCLID	
	Algea toxicity	NOEC mg/l	8000	8 d			

12.2. Persistence and degradability

Easily biodegradable (concerning to the criteria of the OECD)

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation	•	-				
50-00-0	formaldehyde						
	Biological degradability	97 %	5				
	Readily biodegradable.	•	•				

12.3. Bioaccumulative potential

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
50-00-0	formaldehyde	0,78

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

Forms toxic and corrosive mixtures with water even if diluted. Risk the quality of drinking water.

Pay attention to water protection (gathering,embank), do not empty into drains or the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If questions exist, contact the appropriate agencies.

Waste disposal number of waste from residues/unused products

061301 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from inorganic chemical

processes not otherwise specified; inorganic plant protection products, wood-preserving agents and

other biocides.; hazardous waste

Waste disposal number of used product

061301 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from inorganic chemical

processes not otherwise specified; inorganic plant protection products, wood-preserving agents and

other biocides.; hazardous waste



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Waste disposal number of contaminated packaging

061301 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from inorganic chemical

processes not otherwise specified; inorganic plant protection products, wood-preserving agents and

other biocides.; hazardous waste

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 2209

14.2. UN proper shipping name: FORMALDEHYDE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Classification code: C9
Special Provisions: 533
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 2209

14.2. UN proper shipping name: FORMALDEHYDE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Classification code: C9
Special Provisions: 533
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 2209

14.2. UN proper shipping name: FORMALDEHYDE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Special Provisions:

Limited quantity:

Excepted quantity:

EnS:

5 L

E1

F-A, S-B



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Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2209

14.2. UN proper shipping name: FORMALDEHYDE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Special Provisions: A803
Limited quantity Passenger: 1 L
Passenger LQ: Y841
Excepted quantity: E1

IATA-packing instructions - Passenger:852IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:856IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



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

non-applicable

SECTION 15: Regulatory information

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

National regulatory information

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

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water contaminating class (D): 2 - clearly water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

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





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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

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H301+H311 Toxic if swallowed or in contact with skin.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H330 Fatal if inhaled. H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H370 Causes damage to organs.

Further Information

Notice the directions for use on the label. @N16.P0000001

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.)