

Safety Data Sheet

according to Regulation (EC) No 1907/2006

RHEOSOL-Basic

Revision date: 09.05.2018

Product code: 22301

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

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

Pure detergent for large-scale laundries

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

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:

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Causes severe skin burns and eye damage.

May cause respiratory irritation.

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

Disodium metasilicate pentahydrate

isotridecanol, ethoxylated

2-DODECYLBENZENESULFONIC ACID

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

H314

Causes severe skin burns and eye damage.

H335

May cause respiratory irritation.

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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.
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.
P321	Specific treatment (see information on this label).

Additional advice on labelling

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
10213-79-3	Disodium metascilicate pentahydrate	50 - < 55 %
	229-912-9	01-2119449811-37
	Met. Corr. 1, Skin Corr. 1B, STOT SE 3; H290 H314 H335	
497-19-8	sodium carbonate	25 - < 30 %
	207-838-8	01-2119485498-19
	Eye Irrit. 2; H319	
69011-36-5	isotridecanol, ethoxylated	1 - < 5 %
	Acute Tox. 4, Eye Dam. 1; H302 H318	
85536-14-7	2-DODECYLBENZENESULFONIC ACID	1 - < 5 %
	287-494-3	01-2119490234-40
	Acute Tox. 4, Skin Corr. 1, Aquatic Chronic 3; H302 H314 H412	
9043-30-5	Isotridecanol, ethoxyliert	1 - < 5 %
	Eye Irrit. 2, Aquatic Chronic 3; H319 H412	

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

Labelling for contents according to Regulation (EC) No 648/2004

5 % - < 15 % phosphates, < 5 % non-ionic surfactants, < 5 % anionic surfactants.

Further Information

Full text of H- and EUH-phrases: 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).

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After inhalation

Provide fresh air. In case of persistent respiratory tract irritation, consult a physician.

After contact with skin

Remove solid (dust, dry product) with textile material from skin. After that (in case of contact with liquid solution immediately) wash skin with water for about 10 minutes. Consult a doctor.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Do not induce vomiting. Rinse mouth thoroughly with water.

Let water be drunk in little sips (dilution effect).

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

Symptomatic treatment and supporting therapy is recommended.

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

The product itself does not burn.
waterspray, foam, CO₂, powder

Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

not known

5.3. Advice for firefighters

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

Additional information

In case of fire, formation of hazardous fumes is possible. In case of contact with light metals formation of hydrogen gas is possible.

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

Consider conventional precautions for chemical handling.
Wear protective gloves/protective clothing and eye/face protection.

6.2. Environmental precautions

Do not empty undiluted into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Rinse remaining substances with sufficient amount 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**

Wear personal protection equipment if necessary.
Do not eat, drink or smoke at the workplace.

Advice on protection against fire and explosion

No special measures are necessary.

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

- Store cool, dry and frost-free.
- Storage in original container is allowed.
- After removing the product close the container tight.

Advice on storage compatibility

- Do not store together with acid or light metals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
85536-14-7	2-DODECYLBENZENESULFONIC ACID			
Consumer DNEL, long-term		dermal	systemic	170 mg/kg bw/day

PNEC values

CAS No	Substance	Value
85536-14-7	2-DODECYLBENZENESULFONIC ACID	
Freshwater		0,268 mg/l

8.2. Exposure controls

Appropriate engineering controls

- Avoid leakages in dosage systems

Protective and hygiene measures

- Wash hands before break and after work.

Eye/face protection

- Tightly sealed safety glasses.

Hand protection

- Wear protecting 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.
- Protect skin by using skin protective cream.
- Skincare preparations can not substitute protective gloves.

Skin protection

- Wear appropriate protective clothing.

Respiratory protection

- In case of dust occurrence, use protective mask (particle filter P2 or P3).

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	solid
Colour:	white
Odour:	unperfumed
pH-Value (at 20 °C):	11,5-12,5 (0,4 %)

Changes in the physical state

Melting point:	not known
Initial boiling point and boiling range:	not known
Sublimation point:	not known
Flash point:	not known
Water solubility:	completely miscible

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

The product is stable, if used in compliance with instructions

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

not known

10.4. Conditions to avoid

not known

10.5. Incompatible materials

Exothermic reaction with acids.

10.6. Hazardous decomposition products

not known

SECTION 11: Toxicological information**11.1. Information on toxicological effects****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
10213-79-3	Disodium metascilicate pentahydrate				
	oral	LD50 1152-1349 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rat		
497-19-8	sodium carbonate				
	oral	LD50 2800 mg/kg	@N11.P0000002		
	dermal	LD50 >2000 mg/kg	Rabbit		
69011-36-5	isotridecanol, ethoxylated				
	oral	LD50 500 mg/kg	Rat		
85536-14-7	2-DODECYLBENZENESULFONIC ACID				
	oral	LD50 1470 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
9043-30-5	Isotridecanol, ethoxyliert				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		

Irritation and corrosivity

Causes severe skin burns and 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

May cause respiratory irritation. (Disodium metascilicate pentahydrate)

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

not known

Practical experience

Observations relevant to classification

not known

SECTION 12: Ecological information

12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
10213-79-3	Disodium metascilicate pentahydrate					
	Acute fish toxicity	LC50 210 mg/l	96 h	Brachydanio rerio		
	Acute algae toxicity	ErC50 207 mg/l	72 h	scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 1700 mg/l	48 h	Daphnia magna		
497-19-8	sodium carbonate					
	Acute fish toxicity	LC50 300 mg/l	96 h	Lepomis macrochirus		
	Acute crustacea toxicity	EC50 265 mg/l	48 h	Daphnia magna	IUCLID	
85536-14-7	2-DODECYLBENZENESULFONIC ACID					
	Acute fish toxicity	LC50 1-10 mg/l	96 h	Leopomis macrochrius		
	Acute algae toxicity	ErC50 1-10 mg/l	72 h	algae		
	Acute crustacea toxicity	EC50 1-10 mg/l	48 h	Daphnia pulex		
	Fish toxicity	NOEC 0,268 mg/l				
9043-30-5	Isotridecanol, ethoxyliert					
	Acute fish toxicity	LC50 >1-10 mg/l	96 h	Cyprinus carpio	OECD 203	
	Acute algae toxicity	ErC50 >1-10 mg/l	72 h	Desmodesmus subspicatus	OECD 201	
	Acute crustacea toxicity	EC50 >1-10 mg/l	48 h	Daphnia magna	OECD 202	
	Crustacea toxicity	NOEC 0,37 mg/l	21 d	Daphnia magna		

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
69011-36-5	isotridecanol, ethoxylated			
	Biological degradability	90,1	28	OECD 301D
85536-14-7	2-DODECYLBENZENESULFONIC ACID			
	Biological degradability	>60 %	28	
	DOC reduction.	>70 %		

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
85536-14-7	2-DODECYLBENZENESULFONIC ACID	3,2-3,32

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.

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12.6. Other adverse effects

not known

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

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

Contaminated packaging

Completely emptied packings can be re-cycled.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 1759
<u>14.2. UN proper shipping name:</u>	CORROSIVE SOLID, N.O.S.
<u>14.3. Transport hazard class(es):</u>	8
<u>14.4. Packing group:</u>	III
Hazard label:	8



Classification code:	C10
Special Provisions:	274
Limited quantity:	5 kg
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	UN 1759
<u>14.2. UN proper shipping name:</u>	CORROSIVE SOLID, N.O.S.
<u>14.3. Transport hazard class(es):</u>	8
<u>14.4. Packing group:</u>	III
Hazard label:	8



Classification code:	C10
Special Provisions:	274
Limited quantity:	5 kg
Excepted quantity:	E1

Marine transport (IMDG)

<u>14.1. UN number:</u>	UN 1759
<u>14.2. UN proper shipping name:</u>	CORROSIVE SOLID, N.O.S.

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14.3. Transport hazard class(es):

8

14.4. Packing group:

III

Hazard label:

8



Special Provisions:

223, 274

Limited quantity:

5 kg

Excepted quantity:

E1

EmS:

F-A, S-B

Segregation group:

alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:

UN 1759

14.2. UN proper shipping name:

CORROSIVE SOLID, N.O.S.

14.3. Transport hazard class(es):

8

14.4. Packing group:

III

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

5 kg

Passenger LQ:

Y845

Excepted quantity:

E1

IATA-packing instructions - Passenger:

860

IATA-max. quantity - Passenger:

25 kg

IATA-packing instructions - Cargo:

864

IATA-max. quantity - Cargo:

100 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

yes



14.6. Special precautions for user

not known

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D):

3 - highly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

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

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

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

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

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.)