

Safety Data Sheet

according to Regulation (EC) No 1907/2006

RHEOSOL-Oxi-Foam D

Revision date: 28.03.2019

Product code: 20845

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

1.1. Product identifier

RHEOSOL-Oxi-Foam D

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

Use of the substance/mixture

Disinfection and foam cleaner with active chlorine.

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
 Hazardous to the aquatic environment: Aquatic Acute 1
 Hazard Statements:
 Causes severe skin burns and eye damage.
 Very toxic to aquatic life.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Sodium hypochlorite, solution 12 % Cl active
 caustic potash, potassium hydroxide
 Sodium hydroxide; caustic soda
 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides

Signal word: Danger

Pictograms:



Hazard statements

H314 Causes severe skin burns and eye damage.
 H400 Very toxic to aquatic life.

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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

Chemical characterization

Chloric alkaline foam cleaner concentrate.

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
7681-52-9	Sodium hypochlorite, solution 12 % Cl active	1 - < 5 %
	231-668-3	
	01-7011001	
	Met. Corr. 1, Skin Corr. 1B, STOT SE 3, Aquatic Acute 1 (M-Factor = 10); H290 H314 H335 H400 EUH031	
1310-58-3	caustic potash, potassium hydroxide	1 - < 5 %
	215-181-3	
	01-2119487136-33	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A; H290 H302 H314	
1310-73-2	Sodium hydroxide; caustic soda	1 - < 5 %
	215-185-5	
	01-2119457892-27	
	Met. Corr. 1, Skin Corr. 1A; H290 H314	
308062-28-4	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	1 - < 5 %
	931-292-6	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 2; H302 H315 H318 H400 H411	

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

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

After inhalation

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. Do not wash off with acidic cleaning agents. In case of skin irritation, consult a physician.

After contact with eyes

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Seek medical attention if problems persist.

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**

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

In case of fire may be liberated: Carbon dioxide (CO₂). Chlorine (Cl₂). Hydrogen chloride (HCl).

5.3. Advice for firefighters

Use appropriate respiratory protection. In case of fire and/or explosion do not breathe fumes.
In case of fire: Wear self-contained breathing apparatus.

Additional information

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**

Consider conventional precautions for chemical handling. Wear gloves and eye protection.

6.2. Environmental precautions

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

Take up mechanically.
Suitable material for taking up: Universal binding agent.
Treat the recovered material as prescribed in the section on waste disposal.

Wash with plenty of water.

6.4. Reference to other sections

Personal precautions See protective measures under point 7 and 8.
Disposal: see section 13

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

Consider conventional precautions for chemical handling.

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Avoid contact with skin and eyes.

Do not breathe gas/fumes/vapour/spray.

When using do not eat, drink or smoke.

Warning! Do not use together with other products. May release dangerous gases (chlorine).

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 in a cool, well-ventilated place.

Protect against:

UV-radiation/sunlight.

frost.

Unsuitable materials for Container: metal.

Advice on storage compatibility

Do not store together with:

Reducing agents.

Zinc.

iron.

amines.

Aluminium.

Acid.

Oxidizing agents.

Further information on storage conditions

Keep only in the original container.

Recommended storage temperature: 5-30°C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1310-58-3	Potassium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL
1310-73-2	Sodium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
7681-52-9	Sodium hypochlorite, solution 12 % Cl active			
Worker DNEL, acute		inhalation	local	3,1 mg/m ³
Worker DNEL, acute		inhalation	systemic	3,1 mg/m ³
Worker DNEL, long-term		inhalation	local	1,55 mg/m ³
Worker DNEL, long-term		inhalation	systemic	1,55 mg/m ³
Consumer DNEL, long-term		inhalation	local	1,55 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	1,55 mg/m ³
Consumer DNEL, long-term		oral	systemic	0,26 mg/kg bw/day
1310-73-2	Sodium hydroxide; caustic soda			
Worker DNEL, long-term		inhalation	local	1 mg/m ³
Consumer DNEL, long-term		inhalation	local	1 mg/m ³

PNEC values

CAS No	Substance	Value
7681-52-9	Sodium hypochlorite, solution 12 % Cl active	
Freshwater		0,00021 mg/l
Freshwater (intermittent releases)		0,00026 mg/kg
Marine water		0,000042 mg/l
Secondary poisoning		11,1 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,03 mg/l

8.2. Exposure controls

Appropriate engineering controls

No special measures are necessary.

Protective and hygiene measures

No special measures are necessary.

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.

Skin protection

Protective apron.

Respiratory protection

Respiratory protection necessary at:
aerosol or mist generation.

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insufficient ventilation.
Handling larger quantities.

Suitable respiratory protective equipment:
Combination filter device (DIN EN 141).. A B E 1

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:	scent of chlorine	
pH-Value:		>13

Changes in the physical state

Melting point:		non-applicable
Initial boiling point and boiling range:		99,97 °C
Sublimation point:		not applicable
Softening point:		not applicable
Pour point:		not applicable
Flash point:		not known
Sustaining combustion:		Not sustaining combustion

Flammability

Solid:		not applicable
Gas:		not applicable
Lower explosion limits:		not known
Upper explosion limits:		not known
Ignition temperature:		not applicable
Vapour pressure: (at 20 °C)		23,37 hPa
Vapour pressure: (at 50 °C)		123,3 hPa
Density:		1,12 g/cm ³
Water solubility:		completely miscible

9.2. Other information

Solid content:		not applicable
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SECTION 10: Stability and reactivity

10.1. Reactivity

Warning! Do not use together with other products. May release dangerous gases (chlorine).

10.2. Chemical stability

Contains > 1% active chlorine. Thermal decomposition can lead to the escape of irritating gases and vapours.

10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas.
Formation of: Chlorine, Hydrogen chloride (HCl)

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10.4. Conditions to avoid

Do not allow contact to acid, product may release gas (Cl₂)

10.5. Incompatible materials

Reducing agents.
Zinc.
iron.
amines.
Aluminium.
Acid.

10.6. Hazardous decomposition products

In case of warming: Decomposition under formation of: chlorine.

Further information

Exothermic reactions with: Acid.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7681-52-9	Sodium hypochlorite, solution 12 % Cl active				
	oral	LD50 mg/kg 8200	Rat	IUCLID	
	dermal	LD50 mg/kg >10000	Rabbit		
	inhalative (1 h) vapour	LC50 10,5 mg/l	Rat		
1310-58-3	caustic potash, potassium hydroxide				
	oral	LD50 mg/kg 365	Rat		
1310-73-2	Sodium hydroxide; caustic soda				
	oral	LD50 mg/kg 325	Rabbit		
308062-28-4	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides				
	oral	LD50 mg/kg >2000	Rat	OECD 401	
	dermal	LD50 mg/kg >5000	Rat	OECD 402	

Irritation and corrosivity

Causes burns.

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.

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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.

SECTION 12: Ecological information

12.1. Toxicity

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

due to the alkaline character of the product, usually, it has to be neutralized before contaminated effluents are introduced into the waste water treatment system.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
7681-52-9	Sodium hypochlorite, solution 12 % Cl active					
	Acute fish toxicity	LC50 mg/l	0,06	96 h	Salmo gairdneri	
	Acute algae toxicity	ErC50 mg/l	0,141		Daphnia magna	
1310-73-2	Sodium hydroxide; caustic soda					
	Acute fish toxicity	LC50 mg/l	45,4	96 h	Oncorhynchus mykiss	
	Acute crustacea toxicity	EC50 mg/l	40,4	48 h	Ceriodaphnia sp.	
308062-28-4	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides					
	Acute fish toxicity	LC50 mg/l	>1-10	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50 mg/l	>0,1-1	72 h	Pseudokirchnella subcapitata	OECD 201
	Acute crustacea toxicity	EC50 mg/l	>1-10	48 h	Daphnia magna	OECD 202
	Fish toxicity	NOEC mg/l	>0,1-1	302 d	Pimephales promelas	
	Crustacea toxicity	NOEC mg/l	>0,1-1	21 d	Daphnia magna	

12.2. Persistence and degradability

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

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
308062-28-4	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides			
	Biological degradability	> 90 %	28	OECD 301 B

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
7681-52-9	Sodium hypochlorite, solution 12 % Cl active	-3,42
1310-73-2	Sodium hydroxide; caustic soda	-3,88
308062-28-4	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	<2,7

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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. If product enters soil, it will be mobile and may contaminate groundwater.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation. Hand over to officially registered waste disposal company.

Waste disposal number of waste from residues/unused products

060204 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of bases; sodium and potassium hydroxide; hazardous waste

Waste disposal number of used product

070103 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; organic halogenated solvents, washing liquids and mother liquors; hazardous waste

Contaminated packaging

Completely emptied packings can be re-cycled.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:**

UN 1719

14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S.
(Sodium hypochlorite, solution 12 % Cl active, caustic potash, potassium hydroxide,, Sodium hydroxide; caustic soda)

14.3. Transport hazard class(es):

8

14.4. Packing group:

III

Hazard label:

8



Classification code:

C5

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 1719

14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S.
(Sodium hypochlorite, solution 12 % Cl active, caustic potash, potassium hydroxide,, Sodium hydroxide; caustic soda)

14.3. Transport hazard class(es):

8

14.4. Packing group:

III

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Hazard label: 8



Classification code: C5
 Special Provisions: 274
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 1719

14.2. UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S.
 (Sodium hypochlorite, solution 12 % Cl active, caustic potash, potassium hydroxide,, Sodium hydroxide; caustic soda)

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8



Special Provisions: 223, 274
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1719

14.2. UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S.
 (Sodium hypochlorite, solution 12 % Cl active, caustic potash, potassium hydroxide,, Sodium hydroxide; caustic soda)

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: Sodium hypochlorite, solution 12 % Cl active, caustic potash, potassium hydroxide,, Sodium hydroxide; caustic soda

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14.6. Special precautions for user

No special handling instructions are necessary.

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

Not classified for this transport way.

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): 2 - clearly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Sodium hypochlorite, solution 12 % Cl active

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,5,6,7,8,9,10,11,12,14,15,16.

1, 2, 3, 4, 8, 9, 11, 12, 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.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.

Further Information

Notice the directions for use on the label.

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

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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.)