

Safety data sheet

RM Grill+ 5 kg



Revision: 2024-08-03

Version: 04.0

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

1.1 Product identifier Trade name: RM Grill+

UFI: YXYJ-C11C-E00D-R226

1.2 . Relevant Intended Uses of the Substance or Mixture and Non-Recommended Uses of the Product:

Oven/grill cleaner. For professional use only. Other uses not listed.

Not recommended uses:

SWED - Sector-specific description of workers' exposure:

AISE_SWED_PW_10_2
AISE_SWED_PW_11_2
AISE_SWED_PW_19_2

1.3 . Safety Data Sheet Supplier Details

Contact details

RM GASTRO s.r.o.
Náchodská 818/16 193 00 Prague 9 - Horní
Počernice TEL: +420 281 926 604, email:
info@rmgastro.cz

1.4 Emergency Phone Number

Consult a doctor (if possible present this label or safety data sheet) Poison Information Centre, TEL: 224919293, 224915402

SECTION 2: Hazard identification

2.1 . Classification of the substance or mixture

Skin corrosion, Category 1A (H314)
EUH071
Serious eye damage, Category 1 (H318)
Corrosive to metals, Category 1 (H290)

2.2 Elements of the designation



Signal word: **Danger.**

Contains Sodium Hydroxide, D-glucopyranose, oligomers, Octyl/Decyl Glucoside

Standard hazard statements:

H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
EUH071 - Causes respiratory tract burns.

Instructions for safe handling:

P260 - Do not inhale aerosols.
P280 - Wear protective gloves, protective clothing and goggles or a face shield.
P303 + P361 + P353 - IF IN CONTACT WITH SKIN (or hair): Remove all contaminated garments immediately. Rinse the skin with water or shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if they are fitted and can be removed easily. Continue rinsing.
P310 - Call a POISON CONTROL CENTRE or a physician immediately.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Substance(s)	EC number	CAS Number	REACH number	Classification	Note.	Weight Percentage
Sodium hydroxide	215-185-5	1310-73-2	01-211945789 2-27	Corrosive to skin, Category 1A (H314) Corrosive to metals, Category 1 (H290)		3-10
(2-methoxymethylethoxy) propanol	252-104-2	34590-94-8	01-211945001 1-60	Unclassified		3-10
D-glucopyranose, oligomers, decile octy glycosides	500-220-1	68515-73-1	01-211948853 0-36	Serious eye damage, Category 1 (H318)		1-3

Specific concentration limits

Sodium hydroxide:

- Serious eye damage, Category 1 (H318) \geq 2% > Eye irritation, Category 2 (H319) \geq 0.5%
- Skin corrosion, Category 1A (H314) \geq 5% > Skin corrosion, Category 1B (H314) \geq 2% > Skin irritation, Category 2 (H315) \geq 0.5%

The exposure limit(s), if any, are set out in subsection 8.1. ATEs, if any, are listed in Section 11.

For the texts of the H and EUH sentences in this section, see section 16.

SECTION 4: First Aid Instructions

4.1 First aid description

General information:

If the victim is unconscious, place him in a safe position and provide medical assistance. Provide a supply of fresh air. In case of irregular breathing or its arrest, perform artificial respiration. Do not perform mouth-to-mouth or mouth-to-nose resuscitation. Use a resuscitator with an ambu bag or a ventilator.

Inhalation:

Bring the person out into the fresh air and leave them in a position that facilitates breathing. Call Instantly POISON INFORMATION CENTRE or doctor.

Skin contact:

Rinse the skin with plenty of lukewarm water for at least 30 minutes. Take off any contaminated parts of clothing immediately and wash before using them again. Call a POISON CONTROL CENTRE or a doctor immediately.

Eye Exposure:

Keep your eyelids open and rinse with plenty of lukewarm water for at least 15 minutes. Remove contact lenses if they are fitted and can be removed easily. Continue rinsing. Call a POISON CONTROL CENTRE or a doctor immediately. Rinse your mouth. Drink 1 glass of water immediately. Never give anything to an unconscious person through your mouth. DO NOT induce vomiting. Leave alone. Call a POISON CONTROL CENTRE or a doctor immediately.

Ingestion:

Never give anything to an unconscious person through your mouth. DO NOT induce vomiting. Leave alone. Call a POISON CONTROL CENTRE or a doctor immediately.

Protection of the first aid person:

Wear the personal protective equipment specified in subsection 8.2.

4.2 Key acute and delayed symptoms and effects Inhalation: Skin contact: Eye contact: Ingestion:

It causes burns in the respiratory tract.

It causes severe burns.

Causes severe or permanent damage.

Ingestion can lead to severe burns to the oral cavity and larynx, and there is a risk of perforation of the esophagus and stomach.

4.3 Instruction concerning immediate medical assistance and special treatment

There is no information on clinical trials and medical follow-up. Where specific toxicological data on substances are available, they are presented in Section 11.

SECTION 5: Fire extinguishing measures

5.1 Hashiva

Carbon dioxide. Dry powder. Shower water jet. To extinguish larger fires, use a stream of water or alcohol-resistant foam.

5.2 . Special hazard arising from the substance or mixture

No particular hazard is known.

5.3 Firefighter Instructions

In the event of a fire, wear suitable breathing apparatus, suitable protective clothing including protective gloves and goggles/face shield.

SECTION 6: Measures in the event of accidental leakage

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6.1 . Personal protection measures, protective equipment and emergency procedures

Wear suitable protective clothing. Wear eye/face protection. Wear appropriate protective gloves.

6.2 . Environmental protection measures

Dilute with plenty of water. Avoid entering sewers, surface water, or groundwater.

6.3 Methods and material for leakage containment and cleaning

Create a dam to catch large leaks. Use neutralizing agents. Sprinkle with inert material, e.g. sand, gravel, universal absorbent. Do not re-place the leaked material in the original container. Collect in sealed suitable containers and discard.

6.4 Reference to Other Sections

For information on personal protective equipment, see subsection 8.2. For information on deletion, see Section 13.

SECTION 7: Handling and storage

7.1 Safe Handling Precautions Fire and

Explosion Prevention Precautions:

Special safety measures are not required.

Aerosol and dust prevention measures:

Avoid aerosol.

Measures necessary to protect the environment:

For limitation of exposure to the environment, see subsection 8.2.

Guidelines for general occupational health protection:

Follow the safety regulations for handling chemicals. Do not leave food, drinks and game feed nearby. Do not mix with other products. After handling, wash your hands, face and exposed areas of skin thoroughly. Take off any contaminated parts of clothing immediately. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not inhale aerosols. Use only with adequate ventilation. See section 8.2, Exposure control/personal protective equipment.

7.2 . Conditions for the safe storage of substances and mixtures, including incompatible substances and mixtures

Store in accordance with local codes and ordinances. Store in a sealed container. Store only in the original packaging. For conditions to be avoided, see subsection 10.4. For incompatible materials, see subsection 10.5.

7.3 Specific End-Uses/Specific End-uses

There is no specific end-use recommendation.

SECTION 8: Limitation of exposure / personal protective equipment

8.1 Control parameters Exposure limit values within the meaning of Government Regulation No. 361/2007 Coll., as amended

Permissible limits in air, if available:

Substance(s)	Permissible Exposure Limits (PELs)	Maximum permissible concentrations (NPK-P)
Sodium hydroxide	1 mg/m ³	2 mg/m ³
(2-methoxymethylethoxy) propanol	270 mg/m ³	550 mg/m ³

Biological agent, if available:

Recommended monitoring practices, if available:

Additional exposure limits under specific conditions of use, if available:

DNEL/DMEL and PNEC values

Human exposure

DNEL/DMEL oral exposure - consumer (mg/kg body weight)

Substance(s)	Short-term - local effects	Short-term - systemic effects	Long-term - local systemic effects	Long-term - effects
Sodium hydroxide	-	-	-	-
(2-methoxymethylethoxy) propanol	-	-	-	36
D-glucopyranose, oligomers, decile octyl glycosides	-	-	-	35.7

DNEL/DMEL Dermal Exposure - Worker

Substance(s)	Short-term - local effects	Short-term - long-term - local systemic effects (mg/kg body weight)	Long-term - effects systemic effects (mg/kg body weight)	systemic effects
Sodium hydroxide	2 %	- - -		

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(2-methoxymethylethoxy) propanol	Data not available	-	Data not available	283
D-glucopyranose, oligomers, decile octyl glycosides	Data not available	-	Data not available	595000

DNEL/DMEL Dermal Exposure - Consumer

Substance(s)	Short-term - local effects	Short-term systemic effects (mg/kg body weight)	Long-term - local effects	Long-term - systemic effects (mg/kg body weight)
Sodium hydroxide	2 %	-	-	-
(2-methoxymethylethoxy) propanol	Data not available	-	Data not available	15
D-glucopyranose, oligomers, decile octyl glycosides	Data not available	-	Data not available	357000

DNEL/DMEL inhalation exposure - worker (mg/m³)

Substance(s)	Short-term - local effects	Short-term - systemic effects	Long-term - local systemic effects	Long-term - effects
Sodium hydroxide	-	-	1	-
(2-methoxymethylethoxy) propanol	-	-	-	308
D-glucopyranose, oligomers, decile octyl glycosides	-	-	-	420

DNEL/DMEL inhalation exposure - consumer (mg/m³)

Substance(s)	Short-term - local effects	Short-term - systemic effects	Long-term - local systemic effects	Long-term - effects
Sodium hydroxide	-	-	1	-
(2-methoxymethylethoxy) propanol	-	-	-	37.2
D-glucopyranose, oligomers, decile octyl glycosides	-	-	-	124

Environmental exposure:

Environmental Exposure - PNEC

Substance(s)	Surface water, freshwater (mg/l)	Surface water, seawater (mg/l)	Intermittent (mg/l) Wastewater treatment plants (mg/l)	Wastewater treatment
Sodium hydroxide	-	-	-	-
(2-methoxymethylethoxy) propanol	19	1.9	190 4168	
D-glucopyranose, oligomers, decile octyl glycosides	0.176	0.0176	0.27 560	

Environmental Exposure - PNEC, continued

Substance(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soils (mg/kg) Air (mg/m ³)
Sodium hydroxide	-	-	-
(2-methoxymethylethoxy) propanol	70.2	7.02	2.74 190
D-glucopyranose, oligomers, decile octyl glycosides	1.516	0.152	0.654 -

8.2. Limitation of exposure

The following information relates to the uses listed in subsection 1.2 of the Safety Data Sheet.

Normal terms and conditions apply to this section.

Recommended precautions when handling undiluted product:

Suitable technical inspections: Ensure a good level of overall ventilation. Make sure that the foaming device does not produce inhalable particles. If possible, use an automatic/closed system and cover open containers. Transport by pipeline. Filling in an automatic system. Use tools to handle the product manually.

Appropriate organizational controls: If possible, avoid direct contact and/or splashing of the product. Users are advised to take into account national occupational exposure limit values or other similar values, where available.

REACH application scenarios for an undiluted product:

	SWED - Sector-specific description of workers' exposure	LCS	WHY	Duration (min)	ERC
Manual application when using a brush, mop or wiping	AISE_SWED_PW_10_2	Eau	PROC 10	480	ERC8a
Foam spraying	AISE_SWED_PW_11_2	Eau	PROC 11	60	ERC8a
Manual application	AISE_SWED_PW_19_2	Eau	PROC 19	480	ERC8a

Personal protective equipment

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Eye / Face Protection:	Safety or safety glasses (EN 16321 / EN 166). The use of protective face shield or full face mask.
Hand protection:	Chemically resistant protective gloves (EN374). Check the glove manufacturer's instructions for permeability and penetration. Assess specific conditions of use such as the risk of spillage, cuts, contact time and temperature. Gloves are recommended for long-term contact: Material: butyl rubber Penetration time: \geq 480 min Material thickness: \geq 0.7 mm Gloves are recommended for protection against splashes: Material: nitrile rubber Penetration time: \geq 30 min Material thickness: \geq 0.4 mm After consulting with the supplier of protective gloves, another type providing similar protection can also be selected.
Skin and body protection:	Wear chemically resistant clothing and footwear if it may come into direct contact with the skin and/or splashes (EN 14605).
Respiratory protection:	To comply with the exposure limits at the workplace, use technical measures if they are disposition. If exposure to liquid particles or spills cannot be avoided, use: half mask (EN 140) with P2 particulate filter (EN 143) or full face mask (EN 136) with P1 particulate filter (EN 143) Assess the specific local terms of use. In consultation with the supplier of protection equipment of the respiratory tract, another type providing similar protection can also be selected. Specific exposure limitation measures. Recommendations are given in the data sheet.
Limiting exposure to life Environment:	When discharging used aqueous solutions into the sewer, observe the applicable legal regulations. Do not discharge undiluted or neutralized.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties The information in this section applies to the product, unless it is explicitly stated that it relates to the substance

State: Liquid	Method / Note
Color: Clear, Dark, Brown Odor: Product Specific	
Odor threshold: Not suitable here	
Melting Point / Freezing Point (°C): Not specified	Not relevant for the classification of this product See. Substance Details
Initial boiling point and boiling point range (°C): not specified	

Substance data, boiling point

Substance(s)	Value (°C)	Method Atmospheric pressure (hPa)
Sodium hydroxide	> 990	Method not specified
(2-methoxymethylethoxy) propanol	189.6	Method Not Specified 1013
D-glucopyranose, oligomers, decile octyl glycosides	> 100	Method Not Specified 1013

Flammability (solids, gases): Not relevant to liquids	Method / Note
Flammability (liquid): Non-flammable.	
Flash point (°C): > 93 °C	Closed cup Weight of evidence
Burning Support: The product does not support burning (UN Manual of Tests and Criteria, Section 32, L.2)	
Lower and upper explosion limits/flammability limits (%): Not specified	See. Substance Details

Substance data, flammability or explosion limit values, if available:

Substance(s)	Lower limit (% vol)	Upper limit (% vol)
(2-methoxymethylethoxy) propanol	1.1	14

Auto-ignition temperature: Not specified	Method / Note
Decomposition temperature: Not suitable here.	
pH: \geq 11.5 (undiluted)	ISO 4316
Kinematic Viscosity: Undetermined	
Solubility/miscibility in water: perfectly miscible	

Particulars of the substance, water solubility

Substance(s)	Value (g/l)	Method Temperature (°C)
Sodium hydroxide	1000	Method not specified 20
(2-methoxymethylethoxy) propanol	Soluble	Method not specified 20
D-glucopyranose, oligomers, decile octyl glycosides	Soluble	Method not specified 20

For data on the substance, partition coefficient : n-octanol/water (log Ko/w) see subsection 12.3

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The same pair: Not specified

Method / Note

See. Substance Details

Substance data, vapour pressure

Substance(s)	Value (Pa)	Method	Temperature (°C)
Sodium hydroxide	< 1330	Method not specified	20
(2-methoxymethylethoxy) propanol	37.1	Method not specified	20
D-glucopyranose, oligomers, decile octyl glycosides	< 0.01	OECD 104 (EU A.4)	20

Relative Density: \approx 1.12 (20°C)

Relative vapor density: -

Particle characteristics: Data not available.

Method / Note

OECD 109 (EU A.3)

Not relevant for the classification of this product Not relevant for liquids.

9.2 Additional Information

9.2.1. Information relating to physical hazard classes Explosive properties: Explosion-proof The vapors form an explosive mixture with the air. Oxidizing properties: Not oxidizing. Corrosive for metals: Corrosive

9.2.2 Other safety characteristics Alkaline reserve: \approx 7.8 (g NaOH / 100g; pH=10)

SECTION 10: Persistence and Reactivity

10.1 Reactivity

No dangerous reactions occur during normal use and storage.

10.2 Chemical stability

Stable under normal conditions (temperature and pressure) during storage and use.

10.3 Possibility of dangerous reactions

Under normal storage and use conditions, there are no dangerous reactions.

10.4 Conditions to be avoided

It is stable under normal use and storage.

10.5 Incompatible Materials

May be corrosive to metals. It reacts with acids.

10.6 Hazardous Decomposition Products

It is stable under normal use and storage.

SECTION 11: Toxicological information

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

Compound data: .

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

Data on the substance, where relevant and available, are listed below:.

Acute toxicity

Acute oral toxicity

Substance(s)	Final state	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Oral (mg/kg)
Sodium hydroxide		Data not available				Not specified
(2-methoxymethylethoxy) propanol	LD ⁵⁰	> 5000	Rat	OECD 401 (EU B.1)		Not specified
D-glucopyranose, oligomers, decile octyl glycosides	LD ⁵⁰	> 5000	Rat	OECD 401 (EU B.1)		Not specified

Acute dermal toxicity

Substance(s)	Final	Value	Species	Method	Doba	ATE Dermal
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	Status	(mg/kg)			Exposure (h)	(mg/kg)
Sodium hydroxide	LD ⁵⁰	1350	Rabbit	Method not specified		Not specified
(2-methoxymethylethoxy) propanol	LD ⁵⁰	9510	Rabbit	Method not specified		Not specified
D-glucopyranose, oligomers, decile octyl glycosides	LD ⁵⁰	> 2000	Rabbit	OECD 402 (EU B.3)		Not specified

Acute inhalation toxicity

Substance(s)	Final state	Value (mg/l)	Species	Method	Exposure time (h)
Sodium hydroxide		Data not available			
(2-methoxymethylethoxy) propanol	LC ⁰	> 1,667 (fumes) No mortality observed	Rat		7
D-glucopyranose, oligomers, decile octyl glycosides		Data not available			

Acute inhalation toxicity, continued

Substance(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapors gas (mg/l) (mg/l)	ATE - inhalation, gas (mg/l) (mg/l)
Sodium hydroxide	Not specified	Not specified	Not specified	Not specified
(2-methoxymethylethoxy) propanol	Not specified	Not specified	Not specified	Not specified
D-glucopyranose, oligomers, decile octyl glycosides	Not specified	Not specified	Not specified	Not specified

Irritability and caustic

Skin irritation and causticness

Substance(s)	Result	Species	Method	Exposure time
Sodium hydroxide	Corrosive	Rabbit	Method not specified	
(2-methoxymethylethoxy) propanol	Not irritating		Method not specified	
D-glucopyranose, oligomers, decile octyl glycosides	Not irritating	Rabbit	OECD 404 (EU B.4)	4 hour(s)

Corrosive/irritating to the skin

Substance(s)	Result	Species	Method	Exposure time
Sodium hydroxide	Corrosive	Rabbit	Method not specified	
(2-methoxymethylethoxy) propanol	Not corrosive or irritating		Method not specified	
D-glucopyranose, oligomers, decile octyl glycosides	Serious damage	Rabbit	OECD 405 (EU B.5)	

Respiratory irritation and causticness

Substance(s)	Result	Species	Method	Exposure time
Sodium hydroxide	Data not available			
(2-methoxymethylethoxy) propanol	Data not available			
D-glucopyranose, oligomers, decile octyl glycosides	Data not available			

Sensitization

Sensitization in contact with the skin

Substance(s)	Result	Species	Method	Exposure time (h)
Sodium hydroxide	Not sensitizing		Repeated epicutaneous test on human subjects	
(2-methoxymethylethoxy) propanol	Not sensitizing		Method not specified	
D-glucopyranose, oligomers, decile octyl glycosides	Not sensitizing	Guinea pig	OECD 406 (EU B.6) / Buehler test	

Sensitization by inhalation

Substance(s)	Result	Species	Method	Exposure time
Sodium hydroxide	Data not available			
(2-methoxymethylethoxy) propanol	Data not available			
D-glucopyranose, oligomers, decile octyl glycosides	Data not available			

Effects of CMR (carcinogenic, mutagenic or toxic to reproduction)

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Mutagenicity

Substance(s)	Result (in vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vitro)
Sodium hydroxide	No evidence of mutagenicity, negative test results	OECD 473 Rat Hepatocyte DNA Repair Test	No evidence of mutagenicity, negative test results	OECD 474 (EU B.12) OECD 475 (EU B.11)
(2-methoxymethylethoxy) propanol	No evidence of mutagenicity, negative test results	Method not specified	Data not available	
D-glucopyranose, oligomers, decile octyl glycosides	No evidence of mutagenicity, negative test results	Read across	Data not available	

Carcinogenicity

Substance(s)	Influence
Sodium hydroxide	There is no evidence of carcinogenicity, weight of evidence
(2-methoxymethylethoxy) propanol	No evidence of carcinogenicity, negative test results
D-glucopyranose, oligomers, decile octyl glycosides	There is no evidence of carcinogenicity, weight of evidence

Reproductive toxicity

Substance(s)	Final state	Specific effects	Value (mg/kg body weight/day)	Species	Method	Exposure time	Notes and other effects observed
Sodium hydroxide			Data not available				No evidence of developmental toxicity No evidence of reproductive toxicity
(2-methoxymethylethoxy) propanol			Data not available				There is no evidence of reproductive toxicity
D-glucopyranose, oligomers, decile octyl glycosides			Data not available		OECD 416, (EU B.35), Oral		There is no evidence of reproductive toxicity

Repeated dose toxicity

Subacute or subchronic oral toxicity

Substance(s)	Final state	Value (mg/kg body weight/day)	Species	Method	Exposure time (days)	Specific effects on affected organs
Sodium hydroxide		Data not available				
(2-methoxymethylethoxy) propanol		Data not available				
D-glucopyranose, oligomers, decile octyl glycosides	NOAEL	100	Rat	OECD 408 (EU B.26)	90	

Subchronic dermal toxicity

Substance(s)	Final state	Value (mg/kg body weight/day)	Species	Method	Exposure time (days)	Specific effects on affected organs
Sodium hydroxide		Data not available				
(2-methoxymethylethoxy) propanol		Data not available				
D-glucopyranose, oligomers, decile octyl glycosides		Data not available				

Subchronic inhalation toxicity

Substance(s)	Final state	Value (mg/kg body weight/day)	Species	Method	Exposure time (days)	Specific effects on affected organs
Sodium hydroxide		Data not available				
(2-methoxymethylethoxy) propanol		Data not available				
D-glucopyranose, oligomers, decile octyl glycosides		Data not available				

Chronic toxicity

Substance(s)	Method of exposure	Final state	Value (mg/kg body weight/day)	Species	Method	Exposure time (days)	Specific effects on affected organs	Note
Sodium hydroxide			Data not available					

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(2-methoxymethylethoxy) propanol			Data not available				
D-glucopyranose, oligomers, decile octyl glycosides			Data not available				

STOT - Specific Target Organ Toxicity - Single Exposure

Substance(s)	Affected organ(s)
Sodium hydroxide	Data not available
(2-methoxymethylethoxy) propanol	Data not available
D-glucopyranose, oligomers, decile octyl glycosides	Data not available

STOT - Specific Target Organ Toxicity - Repeated Exposure

Substance(s)	Affected organ(s)
Sodium hydroxide	Data not available
(2-methoxymethylethoxy) propanol	Data not available
D-glucopyranose, oligomers, decile octyl glycosides	Data not available

Danger if inhaled

Substances with non-useless by inhalation (H304), if present, are listed in Section 3.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if listed in subsection 4.2.

11.2 Information on other hazards

11.2.1. Endocrine-disrupting properties

Endocrine-disrupting properties - Human data, if available:

11.2.2. Additional information

No other relevant information is available.

SECTION 12: Environmental information

12.1 Toxicity

Data is not available for mixtures .

Data on the substance, where relevant and available, are listed below:

Toxicity to aquatic organisms - short-term

Aquatic toxicity - short-term - fish

Substance(s)	Final state	Value (mg/l)	Species	Method	Exposure time (h)
Sodium hydroxide	LC ⁵⁰	35	Various organisms	Method not specified	96
(2-methoxymethylethoxy) propanol	LC ⁵⁰	> 1000	<i>Poecilia reticulata</i>	Method not specified	96
D-glucopyranose, oligomers, decile octyl glycosides	LC ⁵⁰	100.81	<i>Brachydanio rerio</i>	ISO 7346	96

Aquatic toxicity - short-term - crustaceans

Substance(s)	Final state	Value (mg/l)	Species	Method	Exposure time (h)
Sodium hydroxide	EC ⁵⁰	40.4	<i>Ceriodaphnia sp.</i>	Method not specified	48
(2-methoxymethylethoxy) propanol	EC ⁵⁰	1919	<i>Daphnia magna Straus</i>	Method not specified	48
D-glucopyranose, oligomers, decile octyl glycosides	EC ⁵⁰	> 100	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48

Toxicity to aquatic organisms - short-term - algae

Substance(s)	Final state	Value (mg/l)	Species	Method	Exposure time (h)
Sodium hydroxide	EC ⁵⁰	22	<i>Photobacterium phosphoreum</i>	Method not specified	0.25
(2-methoxymethylethoxy) propanol	EC ⁵⁰	> 969	<i>Selenastrum capricornutum</i>	Method not specified	72
D-glucopyranose, oligomers, decile octyl glycosides	EC ⁵⁰	27.22	<i>Desmodesmus subspicatus</i>	Method not specified	72

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Aquatic Toxicity - Short-Term - Marine Organisms

Substance(s)	Final state	Value (mg/l)	Species	Method	Exposure time (days)
Sodium hydroxide		Data not available			
(2-methoxymethylethoxy) propanol		Data not available			
D-glucopyranose, oligomers, decile octyl glycosides	EC ⁵⁰	12.43	<i>Skeletonema costum.</i>	Method not specified	3

Impact on wastewater treatment plants - toxicity to bacteria

Substance(s)	Final state	Value (mg/l)	Inoculum	Method	Exposure time
Sodium hydroxide		Data not available			
(2-methoxymethylethoxy) propanol	EC ¹⁰	4168	<i>Pseudomonas</i>	Method not specified	
D-glucopyranose, oligomers, decile octyl glycosides	EC ¹⁰	> 560	<i>Pseudomonas</i>	Method not specified	6 hour(s)

Toxicity to aquatic organisms - long-term

Aquatic toxicity - fish

Substance(s)	Final state	Value (mg/l)	Species	Method	Exposure time	Observed effects
Sodium hydroxide		Data not available				
(2-methoxymethylethoxy) propanol		Data not available				
D-glucopyranose, oligomers, decile octyl glycosides	NOEC	1	<i>Brachydanio rerio</i>	Method not specified	28 day(s)	

Toxicity to aquatic organisms - crustaceans

Substance(s)	Final state	Value (mg/l)	Species	Method	Exposure time	Observed effects
Sodium hydroxide		Data not available				
(2-methoxymethylethoxy) propanol	NOEC	> 0.5	<i>Daphnia magna</i>	Method not specified	22 day(s)	
D-glucopyranose, oligomers, decile octyl glycosides	NOEC	1	<i>Daphnia magna</i>	OECD 202	21 day(s)	

Toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Substance(s)	Final state	Value (mg/kg dry matter of sediment)	Species	Method	Exposure time (days)	Observed effects
Sodium hydroxide		Data not available				
(2-methoxymethylethoxy) propanol		Data not available				
D-glucopyranose, oligomers, decile octyl glycosides		Data not available				

Terrestrial toxicity

Terrestrial toxicity - earthworms, if available:

Substance(s)	Final state	Value (mg/kg dry matter)	Species	Method	Exposure time (days)	Observed effects
Sodium hydroxide		Data not available				

Terrestrial toxicity - plants, if available:

Substance(s)	Final state	Value (mg/kg dry matter)	Species	Method	Exposure time (days)	Observed effects
Sodium hydroxide		Data not available				

Terrestrial toxicity - birds, if available:

Substance(s)	Final state	Value	Species	Method	Exposure time (days)	Observed effects
Sodium hydroxide		Data not available				

Terrestrial toxicity - beneficial insects, if available:

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Substance(s)	Final state	Value (mg/kg dry matter)	Species	Method	Exposure time (days)	Observed effects
Sodium hydroxide		Data not available				

Terrestrial toxicity - soil bacteria, if available:

Substance(s)	Final state	Value (mg/kg dry matter)	Species	Method	Exposure time (days)	Observed effects
Sodium hydroxide		Data not available				

12.2 Persistence and degradability

Abiotic degradation

Abiotic decomposition - by photodegradation in air, if available:

Substance(s)	Half-life	Method	Reviews	Note
Sodium hydroxide	13 second(s)	Method not specified	Quickly photodegradable	
(2-methoxymethylethoxy) propanol	< 1 day(s)	Method not specified	Quickly photodegradable	

Abiotic decomposition - hydrolysis, if available:

Substance(s)	Half-life in fresh water	Method	Reviews	Note
Sodium hydroxide	Data not available			

Abiotic decomposition - other processes, if available:

Substance(s)	Type	Half-life	Method	Reviews	Note
Sodium hydroxide		Data not available			

Biological degradation

Easy biodegradability - aerobic conditions

Substance(s)	Inoculum	Analytical method	DT ⁵⁰	Method	Reviews
Sodium hydroxide					Not applicable (inorganic substances)
(2-methoxymethylethoxy) propanol		Oxygen loss	75% by 28 day (s)	OECD 301F	Easily biodegradable
D-glucopyranose, oligomers, decile octyl glycosides	Activated sludge, aerobic	Reduction of DOC (dissolved organic carbon)	100% within 28 day (s)	OECD 301E	Easily biodegradable

Easy biodegradability – anaerobic and marine conditions, if available:

Substance(s)	Medium and type	Analytical method	DT ⁵⁰	Method	Reviews
Sodium hydroxide					Data not available

Degradation in relevant environmental compartments, if available:

Substance(s)	Medium and type	Analytical method	DT ⁵⁰	Method	Reviews
Sodium hydroxide					Data not available

12.3 Bioaccumulation potential

Partition coefficient n-octanol/water (log Ko/w)

Substance(s)	Value	Method	Reviews	Note
Sodium hydroxide	Data not available		Not relevant, no bioaccumulation	
(2-methoxymethylethoxy) propanol	1.01	Method not specified	Low bioaccumulation potential	
D-glucopyranose, oligomers, decile octyl glycosides	0.07	Method not specified	Bioaccumulation is not expected	

Bioconcentration factor (BCF)

Substance(s)	Value	Species	Method	Reviews	Note
Sodium hydroxide	Data not available				
(2-methoxymethylethoxy) propanol	Data not available				
D-glucopyranose, oligomers, decile octyl glycosides	< 1.77		Method not specified	Bioaccumulation is not expected	

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12.4 Mobility in the soil

Adsorption/Desorption to soil or sediment

Substance(s)	Adsorbent Coefficient Log Koc	Desorbion coefficient Log Koc(des)	Method	Soil/sediment type	Reviews
Sodium hydroxide	Data not available				Mobile in the soil
(2-methoxymethylethoxy) propanol	Data not available				High potential for mobility in soil
D-glucopyranose, oligomers, decile octyl glycosides	Data not available				

12.5. PBT and vPvB assessment results

Substances that meet the PBT/vPvB criteria are listed in Section 3, if any.

12.6 Endocrine-disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

There are no other known side effects.

SECTION 13: Removal Instructions

13.1. Waste management methods

Product residues as waste/unused products:

Comply with applicable legislation, laws, decrees and regulations on waste. Hand over it for professional disposal (e.g. incineration) to a company that deals with waste disposal, or arrange it according to your permit. Waste should not be disposed of by release into the sewer.

Waste catalogue:

20 01 15* Principles.

Empty packaging

Recommendations:

Comply with applicable legislation, laws, decrees and regulations on waste. The packaging material is suitable for energy recovery or recycling. Water, with detergent if necessary.

Suitable cleaning agents:

Act on Waste and on the Amendment of Certain Other Acts No. 541/2020 Coll., as amended, and related implementing regulations

SECTION 14: Shipping Information



Land Transport (ADR/RID), Maritime Transport (IMDG), Air Freight (ICAO-TI / IATA-DGR)

14.1 UN number or ID number: 1824

14.2 Official (UN) naming for transport:

Sodium hydroxide solution

14.3. Transport hazard class(s): Transport hazard class (and ancillary risks): 8

14.4. Packaging group: II

14.5 Environmental hazard: Endangers the environment: No

Marine pollutant: No

14.6 Special precautions for users: Not known.

14.7 Ocean bulk transport according to IMO instruments: The product is not transported in tanks on ships.

Other important information: ADR

Classification code: C5

Tunnel Restriction Code: (E)

Hazard identification number: 80

IMO/IMDG

EmS: F-A, S-B

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The product is classified, labelled and packaged in accordance with the requirements of the ADR and the provisions of the IMDG Code. An exception to the ADR applies to small volume packaging.

SECTION 15: Regulatory Information

15.1. Safety, health and environmental rules/specific legislation relating to the substance or mixture

EU Regulation:

- Regulation (EC) No 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No 648/2004 - Detergents Regulation
- substances that have been identified as having endocrine-disrupting properties according to the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Transport of Dangerous Goods by Sea (IMDG)

Authorisation or restriction (EC Regulation No. 1907/2006, Title VII and Title VIII, respectively) Not relevant here.

Ingredients according to Regulation 648/2004/EC on detergents:

Non-ionic surfactants < 5 %

The surfactant(s) contained in the product complies with the biodegradability requirements set out in Regulation (EC) 648/2004 on detergents. The data confirming this declaration shall be made available to the competent authorities of the Member States and shall be made available to them at their direct request or at the request of the detergent manufacturer.

Seveso - Classification: Unclassified

15.2. Chemical Safety Assessment

No chemical safety assessment of the mixture has been performed.

SECTION 16: Additional Information

The data in the Safety Data Sheet is based on the current state of our knowledge and information available at the time the Safety Data Sheet is processed. However, this does not constitute a guarantee of product properties and does not provide for a legally binding contract.

Safety Data Sheet Code: MS1004311

Version: 04.0

Revision: 2024-08-03

Reason for revision:

1, 3, 8, 9, 11, 12, 16

Method of classification

The classification of the mixture shall be carried out on the basis of the calculation method using the substance data as specified in Regulation (EC) No 1272/2008. If data are available for the mixture, e.g. based on extrapolation principles or conclusive evidence for classification, this will be reported in the relevant parts of the safety data sheet, e.g. in Section 9 Physical and chemical properties, Section 11 Toxicological information or Section 12 Ecological information.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products (international organization)
- ATE - Acute Toxicity Estimation
- DNEL - a derived level at which there are no adverse effects
- EC50 - effective concentration, 50%
- ERC - Environmental release category
- EUH - CLP additional hazard statements
- LC50 - lethal concentration, 50%
- LCS - Life Cycle Stage
- LD50 - lethal dose, 50%
- NOAEL - Dose value with no observed adverse effect
- NOEL - dose value with no observed effect
- OECD - Organisation for Economic Co-operation and Development
- PBT - persistent, bioaccumulative and toxic
- PNEC - estimate of the concentration at which no adverse effects occur
- PROC - Process Categories
- REACH number - REACH registration number without the part that specifies the supplier
- vPvB - highly persistent and highly bioaccumulative
- H290 - May be corrosive to metals.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H402 - Harmful to aquatic life.