

deep clean

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

1.1. Product identifier

Product name : deep clean
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Industrial cleaning
Rotisserie cleaner
Detergent according to Regulation (EC) No 648/2004

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Fri-Jado B.V
Oude Kerkstraat 2
NL-4878 AA Etten-Leur
☎ +31 76 50 85 400
Customer.service@frijado.com

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Met. Corr.	category 1	H290: May be corrosive to metals.
Skin Corr.	category 1A	H314: Causes severe skin burns and eye damage.

2.2. Label elements



Contains: sodium hydroxide.

Signal word : Danger

H-statements

H290 : May be corrosive to metals.
H314 : Causes severe skin burns and eye damage.

P-statements

P280 : Wear protective gloves, protective clothing and eye protection/face protection.
P260 : Do not breathe dust.
P304 + P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.

2.3. Other hazards

No other hazards known

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
sodium hydroxide 01-2119457892-27	1310-73-2 215-185-5	85%<C<90%	Met. Corr. 1; H290 Skin Corr. 1A; H314	(1)(2)(6)(8)	Constituent
(1-hydroxyethylidene)bisphosphonic acid, sodium salt	29329-71-3 249-559-4	10%<C<15%	Acute Tox. 4; H302 Eye Irrit. 2; H319	(1)	Constituent

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

(8) Specific concentration limits, see heading 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wipe off dry product from skin. Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents without medical advice. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

After eye contact:

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist.

After ingestion:

Immediately after ingestion: give lots of water to drink. Rinse mouth with water. Do not induce vomiting. Do not apply (chemical) neutralizing agents without medical advice. Immediately consult a doctor/medical service.

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

4.2.1 Acute symptoms

After inhalation:

AFTER INHALATION OF DUST: Corrosion of the upper respiratory tract.

After skin contact:

Caustic burns/corrosion of the skin.

After eye contact:

Corrosion of the eye tissue.

After ingestion:

Possible esophageal perforation. Burns to the gastric/intestinal mucosa.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Class A foam extinguisher, Water (quick-acting extinguisher, reel).

Major fire: Water, Class A foam.

5.1.2 Unsuitable extinguishing media:

Small fire: Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher.

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5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, carbon monoxide - carbon dioxide). Violent exothermic reaction with water (moisture). Reacts on exposure to water (moisture) with (some) metals: release of highly flammable gases/vapours (hydrogen).

5.3. Advice for firefighters

5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Face-shield. Corrosion-proof suit. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent dust cloud formation. No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. Corrosion-proof suit.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain released product. Dam up the solid spill. Knock down/dilute dust cloud with water spray. Take account of toxic/corrosive precipitation water. Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe strict hygiene. Remove contaminated clothing immediately. Do not discharge the waste into the drain. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Store in a dry area. Keep container in a well-ventilated place. Keep locked up. Unauthorized persons are not admitted. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, (strong) acids, water/moisture, metals.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

Metal.

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Belgium

Sodium (hydroxyde de)	Time-weighted average exposure limit 8 h	2 mg/m ³ (M)
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La mention "M" indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage.

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France

Sodium (hydroxyde de)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	2 mg/m ³
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UK

Sodium hydroxide	Short time value (Workplace exposure limit (EH40/2005))	2 mg/m ³
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USA (TLV-ACGIH)

Sodium hydroxide	Momentary value (TLV - Adopted Value)	2 mg/m ³
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b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

DNEL/DMEL - Workers

sodium hydroxide

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	1 mg/m ³	

DNEL/DMEL - General population

sodium hydroxide

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	1 mg/m ³	

(1-hydroxyethylidene)bisphosphonic acid, sodium salt

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects oral	6.5 mg/kg bw/day	
	Acute systemic effects oral	6.5 mg/kg bw/day	

PNEC

(1-hydroxyethylidene)bisphosphonic acid, sodium salt

Compartments	Value	Remark
Fresh water	0.134 mg/l	
Marine water	0.014 mg/l	
STP	20 mg/l	
Fresh water sediment	59 mg/kg sediment dw	
Marine water sediment	5.9 mg/kg sediment dw	
Soil	41 mg/kg soil dw	
Oral	12 g/kg food	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe strict hygiene. Do not eat, drink or smoke during work.

a) Respiratory protection:

Respiratory protection not required in normal conditions. Dust production: dust mask with filter type P3.

b) Hand protection:

Gloves.

c) Eye protection:

Face shield. In case of dust production: protective goggles.

d) Skin protection:

Corrosion-proof clothing. In case of dust production: head/neck protection.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Solid
Odour	Characteristic odour
Odour threshold	Not applicable
Colour	White
Particle size	No data available
Explosion limits	No data available
Flammability	Non-flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	No data available
Solubility	Water ; soluble
Relative density	1.2
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Flash point	Not applicable (solid)
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	13 ; 1 %

9.2. Other information

Absolute density	1200 kg/m ³
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SECTION 10: Stability and reactivity

10.1. Reactivity

Basic reaction. May be corrosive to metals.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Violent exothermic reaction with water (moisture). Violent exothermic reaction with (some) acids. May be corrosive to metals.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

(strong) acids, water/moisture, metals.

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, carbon monoxide - carbon dioxide). Reacts on exposure to water (moisture) with (some) metals: release of highly flammable gases/vapours (hydrogen).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

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No (test) data on the mixture available

Judgement is based on the relevant ingredients

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sodium hydroxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral						Data waiving	
Dermal						Data waiving	
Inhalation						Data waiving	

(1-hydroxyethylidene)bisphosphonic acid, sodium salt

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	2850 mg/kg bw		Rat (male/female)	Experimental value	
Oral	LD50	Equivalent to OECD 401	940 mg/kg bw		Rat (male/female)	Experimental value	Calculated by reference to active substance
Dermal	LD50	Equivalent to OECD 402	> 5000 mg/kg bw	24 h	Rabbit (male/female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 1650 mg/kg bw	24 h	Rabbit (male/female)	Experimental value	Calculated by reference to active substance
Inhalation						Data waiving	

Conclusion

Not classified for acute toxicity

Corrosion/irritation

deep clean

No (test)data on the mixture available

Classification is based on the relevant ingredients

sodium hydroxide

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405		24; 48; 72 hours	Rabbit	Expert judgement	2% aqueous solution
Eye	Serious eye damage	OECD 405		4; 24; 48; 72; 96 hours	Rabbit	Experimental value	2% aqueous solution
Skin	Irritating	Equivalent to OECD 404		1; 24; 48; 72; 168 hours	Rabbit	Experimental value	5% aqueous solution
Skin	Highly corrosive; category 1A					Annex VI	

(1-hydroxyethylidene)bisphosphonic acid, sodium salt

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Moderately irritating; category 2	Equivalent to OECD 405	24 week(s)	1; 24; 48; 72; 168 hours	Rabbit	Experimental value of similar product	Single treatment with rinsing

Conclusion

Causes severe skin burns and eye damage.

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

deep clean

No (test)data on the mixture available

Judgement is based on the relevant ingredients

sodium hydroxide

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing				Human (male)	Experimental value	Aqueous solution

Conclusion

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

Specific target organ toxicity

deep clean

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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deep clean

sodium hydroxide

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral								Data waiving
Dermal								Data waiving
Inhalation								Data waiving

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

deep clean

No (test)data on the mixture available

sodium hydroxide

Result	Method	Test substrate	Effect	Value determination
				Data waiving

Mutagenicity (in vivo)

deep clean

No (test)data on the mixture available

Judgement is based on the relevant ingredients

sodium hydroxide

Result	Method	Exposure time	Test substrate	Organ	Value determination
					Data waiving

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

deep clean

No (test)data on the mixture available

Judgement is based on the relevant ingredients

sodium hydroxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Unknown								Data waiving

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

deep clean

No (test)data on the mixture available

Judgement is based on the relevant ingredients

sodium hydroxide

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity								Data waiving
Maternal toxicity								Data waiving
Effects on fertility								Data waiving

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

deep clean

No (test)data on the mixture available

Chronic effects from short and long-term exposure

deep clean

No effects known.

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SECTION 12: Ecological information

12.1. Toxicity

deep clean

No (test) data on the mixture available

Judgement is based on the relevant ingredients

sodium hydroxide

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		45.4 mg/l	96 h	Salmo gairdneri	Static system	Fresh water	Experimental value; Solution >=50%
Acute toxicity crustacea	EC50		40.4 mg/l	48 h	Ceriodaphnia sp.			Experimental value; Nominal concentration
Toxicity algae and other aquatic plants								Data waiving
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea								Data waiving

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

sodium hydroxide

Biodegradation water

Method	Value	Duration	Value determination
	Not applicable (inorganic)		

Conclusion

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

deep clean

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

sodium hydroxide

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

(1-hydroxyethylidene)bisphosphonic acid, sodium salt

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		2 - 71	49 day(s)	Cyprinus carpio	Read-across

Log Kow

Method	Remark	Value	Temperature	Value determination
		-3.5		Read-across

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

(1-hydroxyethylidene)bisphosphonic acid, sodium salt

(log) Koc

Parameter	Method	Value	Value determination
log Koc		4.22	Read-across

Conclusion

Contains component(s) that adsorb(s) into the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

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12.6. Other adverse effects

deep clean

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of substances which may contribute to the greenhouse effect (IPCC)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

sodium hydroxide

Groundwater

Groundwater pollutant

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 29* (separately collected fractions (except 15 01): detergents containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Recycle/reuse. Neutralize. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Treat using the best available techniques before discharge into drains or the aquatic environment.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1. UN number

UN number	1823
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14.2. UN proper shipping name

Proper shipping name	Sodium hydroxide, solid, mixture
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14.3. Transport hazard class(es)

Hazard identification number	80
Class	8
Classification code	C6

14.4. Packing group

Packing group	II
Labels	8

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	
Limited quantities	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)

Rail (RID)

14.1. UN number

UN number	1823
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14.2. UN proper shipping name

Proper shipping name	Sodium hydroxide, solid, mixture
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14.3. Transport hazard class(es)

Hazard identification number	80
Class	8
Classification code	C6

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14.4. Packing group

Packing group	II
Labels	8

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	
Limited quantities	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

14.1. UN number

UN number	1823
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14.2. UN proper shipping name

Proper shipping name	Sodium hydroxide, solid, mixture
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14.3. Transport hazard class(es)

Class	8
Classification code	C6

14.4. Packing group

Packing group	II
Labels	8

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	
Limited quantities	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)

Sea (IMDG/IMSBC)

14.1. UN number

UN number	1823
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14.2. UN proper shipping name

Proper shipping name	Sodium hydroxide, solid, mixture
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14.3. Transport hazard class(es)

Class	8
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14.4. Packing group

Packing group	II
Labels	8

14.5. Environmental hazards

Marine pollutant	-
Environmentally hazardous substance mark	no

14.6. Special precautions for user

Special provisions	
Limited quantities	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)

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

Annex II of MARPOL 73/78	Not applicable
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Air (ICAO-TI/IATA-DGR)

14.1. UN number

UN number	1823
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14.2. UN proper shipping name

Proper shipping name	Sodium hydroxide, solid, mixture
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14.3. Transport hazard class(es)

Class	8
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14.4. Packing group

Packing group	II
Labels	8

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	
Limited quantities: maximum net quantity per packaging	5 kg

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SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
0 %	

Ingredients according to Regulation (EC) No 648/2004 and amendments

5-15% phosphonates

National legislation Belgium

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No data available

National legislation The Netherlands

deep clean

Waterbezwaarlijkheid	B (3)
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National legislation France

deep clean

No data available

National legislation Germany

deep clean

WGK	2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4) and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) of 18 April 2017
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sodium hydroxide

TA-Luft	5.2.1
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(1-hydroxyethylidene)bisphosphonic acid, sodium salt

TA-Luft	5.2.1
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National legislation United Kingdom

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No data available

Other relevant data

deep clean

No data available

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H-statements referred to under heading 3:

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

(*)	INTERNAL CLASSIFICATION BY BIG
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process

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vPvB

very Persistent & very Bioaccumulative

Specific concentration limits CLP

sodium hydroxide	$C \geq 5\%$	Skin Corr. 1A; H314	CLP Annex VI (ATP 0)
	$2\% \leq C < 5\%$	Skin Corr. 1B; H314	CLP Annex VI (ATP 0)
	$0,5\% \leq C < 2\%$	Skin Irrit. 2; H315	CLP Annex VI (ATP 0)
	$0,5\% \leq C < 2\%$	Eye Irrit. 2; H319	CLP Annex VI (ATP 0)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

Publication date: 2018-08-10