

NOVADAN®	SAFETY DATA SHEET	NOVADAN®
Natriumhypochlorit (Blegeessens)		

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	09.02.2012
Revision date	25.10.2021

1.1. Product identifier

Product name	Natriumhypochlorit (Blegeessens)
Article no.	31345, 31370, 31376, 31379

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

Product group	Chemical product for different uses.
Main intended use	PP-BIO-2 Disinfectants and algaecides not intended for direct application to humans or animals
Relevant identified uses	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU4 Manufacture of food products SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen) PC8 Biocidal Products (e.g. Disinfectants, pest control) PC19 Intermediate PC37 Water treatment chemicals PROC2 Use in closed, continuous process with occasional controlled exposure PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises PROC13 Treatment of articles by dipping and pouring ERC2 Formulation of preparations ERC4 Industrial use of processing aids in processes and products, not becoming part of articles ERC6B Industrial use of reactive processing aids ERC8A Wide dispersive indoor use of processing aids in open systems ERC8B Wide dispersive indoor use of reactive substances in open systems ERC8D Wide dispersive outdoor use of processing aids in open systems ERC8E Wide dispersive outdoor use of reactive substances in open systems
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Producer

Company name	Novadan ApS
Postal address	Platinvej 21
Postcode	DK-6000
City	Kolding
Country	Danmark
Telephone number	+ 45 76 34 84 00
Fax	+ 45 75 50 43 70
Email	sds@novadan.dk
Website	www.novadan.dk

1.4. Emergency telephone number

Emergency telephone	Description: UK: NHS: 111 EI: National Poisons Information Centre, 24/7: 01 809 2166
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to
Regulation (EC) No 1272/2008
[CLP / GHS]

Met. Corr. 1; H290; Expert opinion
Skin Corr. 1B; H314; Calculation method
Eye Dam. 1; H318; Calculation method
Aquatic Acute 1; H400; Calculation method; M-factor 10
Aquatic Chronic 2; H411; Calculation method
EUH 031; Calculation method

Substance / mixture hazardous
properties

For further information, please refer to section 11.

Additional information on
classification

The informations stated in this MSDS, applies for the concentrated product.
See Sec. 16, for informations regarding recommended user solutions

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label Sodium hypochlorite

Signal word Danger

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

	H410 Very toxic to aquatic life with long lasting effects. EUH 031 Contact with acids liberates toxic gas.
Precautionary statements	P273 Avoid release to the environment. P280 Wear protective gloves / protective clothing / eye protection / face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / 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 or doctor / physician.
Supplemental label information	For professional users only. Read attached instructions before use.
Other EU labelling requirements	Active chlorine released from sodium hypochlorite: 125 g/kg

2.3. Other hazards

Hazard description, general	Do not mix with acid or acid containing products: toxic chlorine gas may be formed.
Health effect	Corrosive to skin and eyes. May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY. See section 11 for additional information on health hazards.
Environmental effects	Very toxic to aquatic life with long lasting effects. Substantial amounts of the product may lead to a local change in acidity in small water systems which may have adverse effects on aquatic organisms. This product does not contain any PBT or vPvB substances.
Other hazards	Undiluted, the product may be corrosive to metals. No evidence for endocrine disrupting properties.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Sodium hypochlorite	CAS No.: 7681-52-9 EC No.: 231-668-3 Index No.: 017-011-00-1 REACH Reg. No.: 01-2119488154-34-xxxx	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400; M-factor 10 Aquatic Chronic 1; H410; M-factor 1 EUH 031 Additional information on classification: EUH031: C ≥ 5 %	5 - 15 %	
Sodium hydroxide	CAS No.: 1310-73-2 EC No.: 215-185-5 REACH Reg. No.: 01-2119457892-27-xxxx	Skin Corr. 1A; H314 Eye Dam. 1; H318 Met. Corr. 1; H290 Additional information on classification: Eye Irrit. 2; H319: 0,5 % ≤ C < 2 % Skin Corr. 1A; H314: C ≥ 5 %	1 < 2 %	

	Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 %
Substance comments	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents: 5-15%: Disinfectant , Chlorine-containing bleaching agent. . The full text for all hazard statements is displayed in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination.
Inhalation	Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions. In case of chlorine poisoning: Move injured person to fresh air and after that to hospital.
Skin contact	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if any discomfort continues.
Eye contact	Important! Immediately rinse with water for at least 15 minutes. May cause permanent damage if eye is not immediately irrigated. Make sure to remove any contact lenses from the eyes before rinsing. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital.
Ingestion	Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Do not give victim anything to drink if he is unconscious.
Recommended personal protective equipment for first aid responders	Wear necessary protective equipment. For personal protection, see section 8.

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

Acute symptoms and effects	Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative. Corrosive. Prolonged contact causes serious tissue damage.
Delayed symptoms and effects	The etching penetrates deeply into the tissue and is first noticed after a while.

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

Other information	In case of unconsciousness, ingestion or eye contact: Immediately call a doctor / ambulance. Show this safety data sheet.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
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5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	This product is not flammable. During fire, gases hazardous to health may be formed. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.
Hazardous combustion products	Toxic gases/vapours/fumes of: Chlorine. Hydrogen chloride (HCl).

5.3. Advice for firefighters

Personal protective equipment	Wear necessary protective equipment. For personal protection, see section 8.
Fire fighting procedures	Reference is made to the company fire procedure. If risk of water pollution occurs, notify appropriate authorities. Avoid breathing fire vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Look out! The product is corrosive. Use protective gloves, goggles and suitable protective clothing. In case of inadequate ventilation use suitable respirator. For personal protection, see section 8.
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6.2. Environmental precautions

Environmental precautionary measures	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment.
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6.3. Methods and material for containment and cleaning up

Cleaning method	Dam and absorb spillage with sand, sawdust or other absorbent. Wash contaminated area with water.
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6.4. Reference to other sections

Other instructions	See section 8 and section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Avoid inhalation of aerosols. Avoid inhalation of vapours and contact with skin and eyes. Use work methods which minimize spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible. Do not mix with acidic products.
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Protective safety measures

Advice on general occupational hygiene	Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Eating, smoking and water fountains prohibited in immediate work area. Take off contaminated clothing and personal protective equipment before entering an eating area..
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container. Keep away from food, drink and animal feeding stuffs. Store protected from acids. Store the product away from direct sunlight in opaque containers.
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Conditions for safe storage

Storage temperature Value: 0 - 20 °C

Storage stability Durability: 6 months.

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Sodium hydroxide	CAS No.: 1310-73-2	Limit value (short term) Value: 2 mg/m ³	
Chlorine	CAS No.: 7782-50-5		

DNEL / PNEC

Substance Sodium hypochlorite

DNEL

Group: Professional

Route of exposure: Long-term inhalation (local)

Value: 1,55 mg/m³

Group: Professional

Route of exposure: Long-term dermal (local)

Value: 0,5 %

Group: Professional

Route of exposure: Long-term inhalation (systemic)

Value: 1,55 mg/m³

Group: Professional

Route of exposure: Acute inhalation (local)

Value: 3,1 mg/m³

Group: Professional

Route of exposure: Acute inhalation (systemic)

Value: 3,1 mg/m³

Group: Consumer

Route of exposure: Long-term inhalation (local)

Value: 1,55 mg/m³

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 1,55 mg/m³

Group: Consumer

Route of exposure: Long-term oral (systemic)

Suitable eye protection Wear approved safety goggles. EN 166.

Hand protection

Skin- / hand protection, long term contact

Use protective gloves made of:
Butyl rubber. $\geq 0,5$ mm
Neoprene. $\geq 0,5$ mm
Nitrile. $\geq 0,4$ mm
EN 374.

Breakthrough time

Value: ≥ 480 minute(s)

Hand protection, comments

Manufacturer's directions for use should be observed because of great diversity of types.
The recommendation is a qualified estimate based on knowledge of the components.

Skin protection

Additional skin protection measures

Wear apron or protective clothing in case of contact.
Wear rubber footwear.

Respiratory protection

Respiratory protection necessary at

In case of inadequate ventilation use suitable respirator.
Wear respiratory protection with combination filter (dust and gas filter). Type B/P2. EN 143/EN149.

Thermal hazards

Thermal hazards

See section 5.

Appropriate environmental exposure control

Environmental exposure controls

See section 6.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Fluid.

Colour

Yellowish.

Odour

Chlorine.

pH

Status: In delivery state
Value: $\sim 13,0$
Comments: 0 °dH

Status: In aqueous solution
Value: $\sim 8,5$
Comments: 0 °dH
Concentration: 0,16 %

Status: In aqueous solution
Value: 11,0

	Concentration: 3,0 %
	Status: In aqueous solution
	Value: ~ 12,0
	Comments: 0 °dH
	Concentration: 6 %
Melting point / melting range	Comments: Not relevant.
Boiling point / boiling range	Comments: Not relevant.
Flash point	Comments: Not relevant.
Evaporation rate	Comments: Not relevant.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not relevant.
Vapour density	Comments: Not relevant.
Relative density	Comments: Not relevant.
Density	Value: ~ 1,20 kg/l
Solubility	Medium: Water Comments: Completely soluble in water.
Partition coefficient: n-octanol/ water	Comments: Not relevant.
Auto-ignition temperature	Comments: Not relevant.
Decomposition temperature	Comments: Not relevant.
Viscosity	Value: < 50 mPa s
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

9.2.2. Other safety characteristics

Comments	No data recorded.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Generates toxic gas when in contact with acid. Reacts violently with strong acids. Reacts strongly with water. Do not add water directly to the product. It may cause a violent reaction. Risk of bumping (splashes).
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10.4. Conditions to avoid

Conditions to avoid

Heating. Extremes of temperatures. Avoid contact with acids.

10.5. Incompatible materials

Materials to avoid

Strong acids. Acids, oxidising. Alkali-sensitive metals such as aluminium, tin, lead and zinc and alloys with these metals.

10.6. Hazardous decomposition products

Hazardous decomposition products

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.
Chlorine gas and hydrogen chloride may be formed in a fire or by heating.

Other information

Other information

Undiluted, the product may be corrosive to metals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance

Sodium hypochlorite

Acute toxicity

Effect tested: LD50
Route of exposure: Oral
Method: OECD Guideline 401
Value: 1100 mg/kg
Animal test species: Rat
Comments: 15 %

Effect tested: LC50
Route of exposure: Inhalation.
Method: OECD 403
Duration: 1 hour(s)
Value: > 10,5 mg/l
Animal test species: Rat
Comments: 15 %

Effect tested: LD50
Route of exposure: Dermal
Method: OECD Guideline 402
Value: > 20000 mg/kg
Animal test species: Rabbit
Comments: 15 %

Other toxicological data

Toxicological tests on the product has not been performed.

Other information regarding health hazards

Assessment of acute toxicity, classification

No evidence for acute toxicity.

Substance

Sodium hypochlorite

Skin corrosion / irritation test result

Species: Rabbit.
Evaluation result: Corrosive to skin.

Substance	Sodium hydroxide
Skin corrosion / irritation test result	Evaluation result: Corrosive to skin.
Substance	Sodium hypochlorite
Eye damage or irritation, test results	Species: Rabbit Evaluation result: Result: Corrosive to eyes.
Substance	Sodium hydroxide
Eye damage or irritation, test results	Evaluation result: Result: Corrosive to eyes.
Inhalation	Vapours and spray mist may irritate throat and respiratory system and cause coughing.
Skin contact	Strongly corrosive. May cause deep tissue damage.
Eye contact	Strongly corrosive. Causes severe burns. Immediate first aid is imperative. May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY.
Ingestion	May cause burns in mucous membranes, throat, oesophagus and stomach.
Sensitisation	No evidence for respiratory nor skin sensitization.
Assessment of germ cell mutagenicity, classification	No evidence for germ cell mutagenicity.
Assessment of carcinogenicity, classification	No evidence for carcinogenicity.
Assessment of reproductive toxicity, classification	No evidence for reproductive toxicity.
Assessment of specific target organ toxicity - single exposure, classification	No evidence for STOT-single exposure.
Assessment of specific target organ toxicity - repeated exposure, classification	No evidence for STOT-repeated exposure.
Assessment of aspiration hazard, classification	No evidence for aspiration hazard.

Symptoms of exposure

Symptoms of overexposure	No specific symptoms noted.
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11.2 Other information

Endocrine disruption	No evidence for endocrine disrupting properties.
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SECTION 12: Ecological information

12.1. Toxicity

Substance	Sodium hypochlorite
Aquatic toxicity, fish	Toxicity type: Acute Value: 0,06 mg/l Exposure time: 96 hour(s)

Substance	Species: Oncorhynchus mykiss Method: LC50 Comments: 15 % Toxicity type: Acute Value: 0,032 mg/l Exposure time: 96 hour(s) Species: Oncorhynchus mykiss Method: LC50 Comments: 15 % Toxicity type: Chronic Value: 0,04 mg/l Exposure time: 28 day(s) Species: Menidia peninsulae Method: NOEC Comments: 15 %
Aquatic toxicity, fish	Toxicity type: Acute Value: 35 - 189 mg/l Exposure time: 96 hour(s) Method: LC50
Substance	Sodium hypochlorite
Aquatic toxicity, algae	Toxicity type: Acute Value: 0,04 mg/l Species: Pseudokirchneriella subcapitata Comments: 15 % Toxicity type: Acute Value: 0,1 mg/l Exposure time: 96 hour(s) Species: Myriophyllum spicatum Comments: 15 %
Substance	Sodium hypochlorite
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 0,141 mg/l Exposure time: 48 hour(s) Species: Daphnia magna Method: EC50 OECD TG 202 Comments: 15 % Toxicity type: Acute Value: 0,035 mg/l Exposure time: 48 hour(s) Species: Ceriodaphnia Dubia Method: EC50 OECD TG 202 Comments: 15 % Toxicity type: Acute Value: 0,026 mg/l Exposure time: 48 hour(s) Species: Crassostrea virginica

	Method: EC50 Comments: 15 % Toxicity type: Chronic Value: 0,007 mg/l Exposure time: 15 day(s) Species: Crassostrea virginica Method: NOEC Comments: 15 %
Substance	Sodium hydroxide
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 40,4 mg/l Test duration: 48 hour(s) Species: ceriodaphnia sp. Method: EC50
Substance	Sodium hypochlorite
Toxicity to bacteria	Toxicity type: Acute Value: > 3 mg/l Exposure time: 3 hour(s) Species: activated sludge Comments: 15 %
Ecotoxicity	Contains a substance (Aquatic Acute 1; H400 or Aquatic Chronic 1; H410) that falls within the scope of the multiplication factor rule. Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	The product solely consists of inorganic compounds which are not biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulation, evaluation	The product is not bioaccumulating.
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12.4. Mobility in soil

Mobility	The product is water soluble and may spread in water systems.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not Classified as PBT/vPvB by current EU criteria.
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12.6. Endocrine disrupting properties

Endocrine disrupting properties	No evidence for endocrine disrupting properties.
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12.7. Other adverse effects

Additional ecological information	None.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements.
Appropriate methods of disposal for the contaminated packaging	Dispose unused product and the packaging in accordance with local requirements.
EWC waste code	EWC waste code: 070601 aqueous washing liquids and mother liquors Classified as hazardous waste: Yes
EWL packing	EWC waste code: 070601 aqueous washing liquids and mother liquors Classified as hazardous waste: Yes
Other information	Waste code applies to product remnants in pure form. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

SECTION 14: Transport information

Dangerous goods	Yes
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14.1. UN number

ADR/RID/ADN	1791
IMDG	1791
ICAO/IATA	1791

14.2. UN proper shipping name

Proper shipping name English ADR/RID/ADN	HYPOCHLORITE SOLUTION
ADR/RID/ADN	HYPOCHLORITE SOLUTION
IMDG	HYPOCHLORITE SOLUTION
ICAO/IATA	HYPOCHLORITE SOLUTION

14.3. Transport hazard class(es)

ADR/RID/ADN	8
Classification code ADR/RID/ADN	C9
IMDG	8
ICAO/IATA	8

14.4. Packing group

ADR/RID/ADN	II
IMDG	II
ICAO/IATA	II

14.5. Environmental hazards

ADR/RID/ADN	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.
IMDG	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.
IMDG Marine pollutant	Yes

14.6. Special precautions for user

Special safety precautions for user	Not relevant.
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14.7. Maritime transport in bulk according to IMO instruments

Product name	HYPOCHLORITE SOLUTION
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Additional information

Hazard label ADR/RID/ADN	8
Hazard label IMDG	8
Hazard label ICAO/IATA	8

ADR/RID Other information

Tunnel restriction code	E
Transport category	2
Hazard No.	80

IMDG Other information

EmS	F-A, <u>S-B</u>
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SECTION 15: Regulatory information

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

Other label information	For professional users only. As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Water hazard class (DE)	Water hazard class (WGK): 2: hazard to waters Source: Self-classification (mixture; calculation rule).
Biocides	Yes
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242), with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/

93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.

REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products.

15.2. Chemical safety assessment

Chemical safety assessment performed

No

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)

EUH 031 Contact with acids liberates toxic gas.
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Training advice

No particular training or education is required but the user must be familiar with this SDS. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.

Additional information

READY-TO-USE MIXTURE: 0,16%-3% Does not require a hazard warning label.
READY-TO-USE MIXTURE: 3%-6% H314 Causes severe skin burns and eye damage.

Information added, deleted or revised

Change to Sections: 1, 2, 7, 8, 11, 12, 13, 16

Version

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Prepared by

ALM