**SAFETY DATA SHEET** 

**NOVADAN®** 

# Natriumhypochlorit (Blegeessens)

**NOVADAN®** 

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

El: National Poisons Information Centre, 24/7: 01 809 2166

#### **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.

Precautionary statements	H410 Very toxic to aquatic life with long lasting effects. EUH 031 Contact with acids liberates toxic gas.		
	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 Other EU labelling requirements	For professional users only. Read attached instructions before use.		
	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 Sodium hypochlorite	Identification CAS No.: 7681-52-9 EC No.: 231-668-3 Index No.: 017-011-00-1 REACH Reg. No.: 01-2119488154-34-xxxx	Classification 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 %	Contents 5 - 15 %	Notes
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 % $\leq$ C $<$ 2 % Skin Corr. 1A; H314: C $\geq$ 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.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguish

Use fire-extinguishing media appropriate for surrounding materials.

#### 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.

#### 6.2. Environmental precautions

Environmental precautionary measures

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment.

#### 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.

#### 6.4. Reference to other sections

Other instructions

See section 8 and section 13.

## **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.

#### **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..

#### 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.

#### 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

SubstanceIdentificationExposure limitsTWA YearSodium hydroxideCAS No.: 1310-73-2Limit value (short term)Value: 2 mg/m³

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/m<sup>3</sup>

**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/m<sup>3</sup>

**Group:** Professional

Route of exposure: Acute inhalation (local)

Value: 3,1 mg/m<sup>3</sup>

**Group:** Professional

Route of exposure: Acute inhalation (systemic)

Value: 3,1 mg/m<sup>3</sup>

**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)

Value: 0,26 mg/kg bw/day

**Group:** Consumer

Route of exposure: Acute inhalation (local)

Value: 3,1 mg/m<sup>3</sup>

**Group:** Consumer

Route of exposure: Acute inhalation (systemic)

Value: 3,1 mg/m<sup>3</sup>

PNEC Route of exposure: Freshwater

**Value:** 0,21 µg/l

Route of exposure: Saltwater

Value: 0,042 μg/l

Route of exposure: Sewage treatment plant STP

Value: 0,03 mg/l

Value: 0,26 μg/l

Reference: intermittent release

Substance Sodium hydroxide

DNEL Group: Professional

Route of exposure: Long-term inhalation (local)

Value: 1 mg/m³

Group: Consumer

Route of exposure: Long-term inhalation (local)

Value: 1 mg/m<sup>3</sup>

**Group:** Professional

Route of exposure: Acute dermal (local)

Value: 2 %

**Group:** Consumer

Route of exposure: Acute dermal (local)

Value: 2 %

#### 8.2. Exposure controls

#### Safety signs













#### Precautionary measures to prevent exposure

Technical measures to prevent exposure

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Provide eyewash, quick drench.

#### Eye / face protection

Suitable eye protection

Wear approved safety goggles. EN 166.

#### **Hand protection**

Skin- / hand protection, long term

contact

Use protective gloves made of:

Butyl rubber. ≥ 0,5 mm Neoprene. ≥ 0,5 mm Nitrile. ≥ 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

Odour

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 S

See section 6.

## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state Fluid.

Colour Yellowish.

pH Status: In delivery state

Value: ~ 13,0 Comments: 0 °dH

Chlorine.

Status: In aqueous solution

Value: ~ 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

Boiling point / boiling range

Comments: Not relevant.

Flash point

Comments: Not relevant.

Evaporation rate

Comments: Not relevant.

Explosion limit

Comments: Not relevant.

Comments: Not relevant.

Comments: Not relevant.

Comments: Not relevant.

Vapour density Comments: Not relevant.

Relative density Comments: Not relevant.

Density Value:  $\sim 1,20 \text{ kg/l}$ 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.

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

#### 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).

#### 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, NOx) 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

Eye damage or irritation, test

results

Substance

Eye damage or irritation, test

results

Inhalation

Sodium hypochlorite

Species: Rabbit

Sodium hydroxide

Evaluation result: Result: Corrosive to eyes.

Evaluation result: Result: Corrosive to eyes.

Vapours and spray mist may irritate throat and respiratory system and cause

coughing.

Skin contact Strongly corrosive. May cause deep tissue damage.

Eve 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.

No evidence for germ cell mutagenicity.

Sensitisation No evidence for respiratory nor skin sensitization.

Assessment of germ cell mutagenicity, classification

Assessment of carcinogenicity,

classification

No evidence for carcinogenicity.

Assessment of reproductive

toxicity, classification

Assessment of specific target organ toxicity - single exposure,

classification

No evidence for reproductive toxicity.

No evidence for STOT-single exposure.

Assessment of specific target organ toxicity - repeated exposure,

classification

Assessment of aspiration hazard,

classification

No evidence for STOT-repeated exposure.

No evidence for aspiration hazard.

#### Symptoms of exposure

Symptoms of overexposure No specific symptoms noted.

#### 11.2 Other information

**Endocrine disruption** No evidence for endocrine disrupting properties.

## 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)

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 %

Substance Sodium hydroxide

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

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.

#### 12.3. Bioaccumulative potential

Bioaccumulation, evaluation

The product is not bioaccumulating.

#### 12.4. Mobility in soil

Mobility

The product is water soluble and may spread in water systems.

#### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

Not Classified as PBT/vPvB by current EU criteria.

#### 12.6. Endocrine disrupting properties

Endocrine disrupting properties No ev

No evidence for endocrine disrupting properties.

#### 12.7. Other adverse effects

Additional ecological information

None.

#### **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

1791

#### 14.1. UN number

ADR/RID/ADN 1791 **IMDG** 1791

#### 14.2. UN proper shipping name

Proper shipping name English

ADR/RID/ADN

ICAO/IATA

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

Ш

**IMDG** 

П

ICAO/IATA

Ш

#### 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.

#### 14.7. Maritime transport in bulk according to IMO instruments

Product name HYPOCHLORITE SOLUTION

#### 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>

### **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

Version

131011

Prepared by

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

1 ALM