

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006  
Print Date 01.10.2015

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

### 1.1 Product identifiers

Product name : Bleach  
REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses : Cleaning agent. Disinfectant

### 1.3 Details of the supplier of the safety data sheet

Company : Vet-Way Ltd,  
1 Harrier court  
Airfield Business Park  
Elvington  
York  
YO41 4EA  
UNITED KINGDOM  
Telephone : +44 (0)1904 607600  
Fax : +44 (0)1904 607601

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Physical Hazards

Not classified

#### Classification as dangerous according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant

R36/37/31

#### Environmental hazards:

Not classified

#### Health Hazards:

Skin Irrit. 2 - H315 Eye Dam. 1 - H318.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008:

The product is classified and labelled according to the CLP regulation

#### Hazard Pictograms



**Signal Word:** Danger

**Hazard Statements:** H315: Causes skin irritation

H318: Causes serious eye damage

**Precautionary statements:** P280: Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352: IF ON SKIN: Wash with plenty of water

P305+P351+P3387: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so.

P310: Immediately call a POISON CENTRE

P102 Keep out of reach of children

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Detergent label:** <5% anionic surfants, <5% chlorine-based bleaching agents, <5% perfumes

### 2.3 Other hazards

#### Result of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

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## SECTION 3: Composition/information on ingredients

### 3.1 Chemical Characterisation: Substances Identification number(s) Not applicable

### 3.2 Chemical characterisation: Mixtures Description:

#### SODIUM HYPOCHLORITE SOLUTION,...CI ACTIVE

EINECS: 231-668-3

CAS: 7681-52-9

REG. NR.: 01-2119488154-34-XXXX

CLP CLASSIFICATION: C; R34, R31,  
N; R50

Met. Corr. 1 - H290, Skin Corr. 1B - H314, Eye Dam., 1 - H318, Aquatic Acute 1 - H400

PERCENT: 1-5%

#### ALCOHOLS, C12-14, ETHOXYLATED <2.5 EO, SULPHATES, SODIUM SALTS

EINECS: 500-234-8

CAS: 68891-38-3

REG. NR.: 01-2119488639-27-XXXX

CLP CLASSIFICATION: Xi, R38, R41

Skin Irrit. 2 - H315, Eye Dam. 1 - H318

PERCENT: 1-5%

#### SODIUM HYDROXIDE

EINECS: 215-185-5

CAS: 1310-73-2

REG. NR.: 01-2119488892-27-XXXX

CLP CLASSIFICATION: C; R35

Met. Corr. 1 - H290, Skin Irrit. 1A - H314, Eye Dam. 1 - H318

PERCENT: 1-5%

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### If inhaled

Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

#### In case of skin contact

Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.

#### In case of eye contact

Irritating to eyes. Symptoms following over exposure may include the following: redness. Pain.

#### If swallowed

Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this SDS to the medical personnel.

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

**Inhalation:** May cause respiratory system irritation.

**Ingestion:** Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. May cause stomach pain or vomiting.

**Skin contact:** Prolonged or repeated contact with skin may cause irritation, redness and dermatitis

**Eye contact:** Irritating to eyes. Symptoms following over exposure may include the following: Redness. Pain.

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

No further relevant information available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing Media

#### Suitable extinguishing media

The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Foam, carbon dioxide or dry powder.

### 5.2 Special hazards arising from the substance or mixture

Fire or high temperatures create: Chlorine. Oxides of: Chlorine. Hydrogen Chloride (HCL)

### 5.3 Advice for firefighters

Control run off-water by containing it and keeping it out of sewers and watercourses.

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 5.4 Further information

no data available

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8.

### 6.2 Environmental precautions

Collect and dispose of spillage as indicated in Section 13. Do not discharge into drains or watercourses or onto the ground.

### 6.3 Methods and materials for containment and cleaning up

Stop leak if possible without risk. Flush away spillage with plenty of water. Absorb spillage with non-combustible, absorbent material. Do not discharge into drains or watercourses or onto the ground. Absorb in vermiculite, dry sand or earth and place into containers. Do not use paper or sawdust. Provide adequate ventilation. Flush contaminated area with plenty of water. Avoid spillage or run-off entering drains, sewers or watercourses.

### 6.4 Reference to other sections

See Section 11 for additional hazards. See section 8 for information on personal protection equipment. See Section 13 for disposal information.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wear protective clothing as described in section 8 of this SDS. Provide adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product of ingredients. Avoid contact with acids and other cleaning agents.

#### Advice on general occupational hygiene

Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product. Provide eyewash station. Wash promptly with soap and water if skin becomes contaminated. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of the skin.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

Store in cool, dry conditions in well-sealed receptacles. Keep container tightly sealed. Protect from the light. Store away from the following materials: Acids.

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the work place

##### Sodium Hydroxide

Long-term exposure limit (8-hour TWA): WEL

Short term exposure limit (15 minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

Ingredient comments: In case of Chlorine emission, the WEL for whlorine should be observed: Short Term Exposure Limit (STEL) 1ppm/ 2.9mg/m<sup>3</sup>. Long Term Exposure Limit (LTEL) 0.5ppm/ 1.5mg/m<sup>3</sup>

#### SODIUM HYPOCHLORITE SOLUTION, ... %CL ACTIVE (CAS:7681-52-9)

**DNEL** Industry - Inhalation; Long term local effects: 1.55 mg/m<sup>3</sup>  
Industry - Inhalation; Long term systemic effects: 1.55mg/m<sup>3</sup>  
Industry - Inhalation; Short term local effects: 3.1 mg/m<sup>3</sup>  
Industry - inhalation; Short term systemic effects: 3.1mg/m<sup>3</sup>  
Consumer - Inhalation; Long term local effects: 1.55mg/m<sup>3</sup>  
Consumer - Inhalation Long term systemic effects: 1.55mg/m<sup>3</sup>  
Consumer - Inhalation; Short term local effects: 3.1 mg/m<sup>3</sup>  
Consumer- inhalation; Short term systemic effects: 3.1mg/m<sup>3</sup>  
Consumer - Oral; Long term systemic effects: 0.26 mg/kg/day

**PNEC** Fresh water; 0.0021 mg/l  
Marine water; 0.000042 mg/l

Intermittent release; 0.00026mg/l

STP; 0.03 mg/l

**ALCOHOLS, C12-14, ETHOXYLATED <2.5 EO, SULPHATES, SODIUM SALTS (CAS: 68891-38-3)**

**DNEL** Workers - Dermal; Long term systemic effects: 2750 mg/kg/day

Workers - Inhalation; Long term systemic effects: 175mg/m<sup>3</sup>

Consumer - Oral; Long term systemic effects: 15 mg/kg/day

Consumer - Dermal; Long term systemic effects: 1650 mg/kg/day

Consumer - Inhalation; Long term systemic effects: 52mg/m<sup>3</sup>

**PNEC** Fresh water; 0.24 mg/l

Marine water; 0.024 mg/l

Intermittent release; 0.071mg/l

Sediment, Fresh water; 5.45 mg/kg

Sediment, Marine water; 0.545 mg/kg

STP; 10,000 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation

### Personal protective equipment

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. EN166

#### Skin protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural latex). EN 374.

Use barrier creams to prevent skin contact. Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Hygiene measures:** When using, do not eat, drink or smoke. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Use appropriate skin cream to prevent drying of the skin.

#### Penetration time of the glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Respiratory protection

Respiratory protection not required.

#### Environmental protection

Avoid release to the environment

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

a) Appearance	Viscous liquid Colour: colourless/pale yellow
b) Odor	Chlorine
c) Odor Threshold	no data available
d) pH	>11
e) Melting point/freezing point	Not applicable
f) Initial boiling point and boiling range	not applicable
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	Not applicable
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	1.070 at 20 °C
n) Water solubility	soluble in water
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available

- r) Viscosity no data available
- s) Explosive properties not considered to be explosive
- t) Oxidizing properties no data available

## 9.2 Other safety information

Not relevant

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reacts with many inorganic and organic compounds

### 10.2 Chemical stability

Decomposes over time. Factors that increase the rate of decomposition: increase in temperature, certain metallic impurities, high initial concentration, fall in pH below 11 and exposure to light.

### 10.3 Possibility of hazardous reactions

Contact with acids liberates toxic gas. Chlorine.

### 10.4 Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

### 10.5 Incompatible materials

Acids. Ammonium compounds. Organic materials. Metals, particularly copper, nickel and iron.

### 10.6 Hazardous decomposition products

Chlorine. Hydrogen chloride (HCl). Oxides of the following substances: chlorine.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Data for sodium hypochlorite solution 15% shows low oral toxicity: LC50 (rat,oral) 1100mg/kg (as available chlorine). Low acute inhalation toxicity. LC50 (rat, 1hr) >10500mg/m<sup>3</sup> (as available chlorine). Very low acute dermal toxicity. LC50 (rat, dermal) >2000mg/kg (as available chlorine)

Does not contain any substances known to be carcinogenic.

#### Sensitisation

**Skin sensitisation** Not sensitizing

**General information** This product has low toxicity.

**Ingestion** May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.

**Skin contact** Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.

**Eye contact** May cause temporary eye irritation.

## Toxicological information on ingredients.

### SODIUM HYPOCHLORITE SOLUTION, ... %CL ACTIVE (CAS:7681-52-9)

#### Skin corrosion/irritation

**Animal data** Corrosive to skin

**Serious eye damage/irritation**

Corrosivity to eyes is assumed.

**Respiratory sensitisation**

Not sensitizing.

**Skin sensitisation**

Not sensitizing

**Carcinogenicity**

Based on available data the classification criteria are not met.

**SECTION 12: Ecological information****12.1 Toxicity****Ecotoxicity**

Not regarded as dangerous for the environment. The product is classified using the test data for the AISE model bleach product. Ref: International association for Soaps, Detergents and Maintenance Products publication "Environmental classification of sodium hypochlorite containing bleach products". The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

**Aquatic Toxicity:**

**Toxicity** Not considered toxic to fish.

**Acute toxicity - aquatic invertebrates**

Reference: AISE report "Environmental classification of sodium hypochlorite containing bleach products", 9 September 2009

EC50, 48hours: >1 mg/l mg/l, Daphnia magna

**Ecological information on ingredients****SODIUM HYPOCHLORITE SOLUTION, ... %CL ACTIVE (CAS:7681-52-9)****Acute aquatic toxicity**

**LE(C)50** 0.01 <L(E)C50 ≤0.1 0.01 < L(E)C50 ≤0.1

**M factor (Acute)** 10

**Chronic aquatic toxicity**

**NOEC** 0.01 < NOEC ≤ 0.1

**12.2 Persistence and degradability**

This product contains inorganic compounds which are not biodegradable. Reacts with organic substances in soil and sediments and degrades rapidly to chloride salts. Substantially removed in biological treatment processes. The surfactant(s) contained in this product complies (comply) with the biodegradability criteria as laid down in regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

**Ecological information on ingredients****SODIUM HYPOCHLORITE SOLUTION, ... %CL ACTIVE (CAS:7681-52-9)**

**Biodegradation** The methods for determining the biological degradability are not applicable to inorganic substances

**12.3 Bioaccumulative potential**

No data available on bioaccumulation. Low potential for bioaccumulation.



#### 12.4 Mobility in soil

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

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

There is evidence that sodium hypochlorite inhibits the aerobic treatment process at a concentration of 0.05 mg/l

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Do not discharge into drains or watercourses or onto the ground.

##### Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Packaging is recyclable. Wash out containers with water before disposal.

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### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

#### 14.2 UN proper shipping name ADR/RID:

Not dangerous goods IMDG:

Not dangerous goods IATA:

Not dangerous goods

#### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

#### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

#### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

#### 14.6 Special precautions for user

no data available

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### SECTION 15: Regulatory information

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

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

The Chemical s(Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716).

EH40/2005 Workplace exposure limits.

##### EU Legislation

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) (as amended).

Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) 1907/2006.

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 (as amended).

Commission Directive 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

Workplace Exposure Limits EH40

COSHH Essentials

ECHA Guidance on the application of the CLP Criteria

ECHA Guidance on the compilation of safety data sheets

## 15.2 Chemical Safety Assessment

A Chemical Safety Assessment (CSA) has been completed for Sodium hypochlorite and Sodium hydroxide.

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### SECTION 16: Other information

#### Further information

#### Abbreviations and acronyms used in the safety data sheet

PBT - Persistent Bio-accumulative and Toxic

vPvB - very Persistent, very Bio-accumulative

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision

**Revision date:** 16/10/15

**Revision 1**

**Supersedes date** 27/03/15

**Risk Phrases in full:** R31 Contact with acids liberates toxic gas

R34 Causes burns

R35 Causes severe burns

R38 Irritating to skin

R41 Risk of serious damage to eyes.

R50 Very toxic to aquatic organisms

**Hazard Statements in full:** H290 May be corrosive to metals

H302 Harmful if swallowed

H314 Causes severe burns and eye damage

H315 Causes skin irritation

H318 Causes serious eye damage

H400 Very toxic to aquatic life.

**Legal disclaimer:** This information relates only to specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability of such information for his own particular use.