

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : VERSAN RTU  
Product code : 257  
Type of product : Biocidal products (e.g. Disinfectants, pest control), Detergent  
Product group : Mixture

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

##### Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : Industrial  
For professional use only  
Use of the substance/mixture : Disinfectant

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

##### Manufacturer

Christeyns Professional Hygiene UK Ltd  
Clover House  
Macclesfield Road  
SK23 7DQ Whaley Bridge, Derbyshire  
United Kingdom  
T 01663 733114, F 01663 733115  
[info.cph.uk@christeyns.com](mailto:info.cph.uk@christeyns.com), [www.christeyns-ph.co.uk](http://www.christeyns-ph.co.uk)

##### Supplier

Christeyns NV  
Afrikalaan 182  
9000 GENT  
Belgium  
T +32 (0)9/ 223 38 71, F +32 (0)9/ 233 03 44  
[info@christeyns.be](mailto:info@christeyns.be), [www.christeyns.com](http://www.christeyns.com)

#### 1.4. Emergency telephone number

| Country/Area   | Organisation/Company   | Address                                  | Emergency number   | Comment                              |
|----------------|--|--|--|--------------------------------------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                     | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                                      |
| United Kingdom | National Poisons Information Service<br>(Birmingham Centre)<br>City Hospital | Dudley Road<br>B18 7QH                   | 0344 892 0111  | Only for healthcare<br>professionals |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1 H290  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

: Warning

Hazard statements (CLP) :

: H290 - May be corrosive to metals.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H412 - Harmful to aquatic life with long lasting effects.

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|                                |   |
|--------------------------------|---|
| Precautionary statements (CLP) | : P102 - Keep out of reach of children.<br>P234 - Keep only in original packaging.<br>P264 - Wash hands thoroughly after handling.<br>P280 - Wear protective gloves, eye protection.<br>P302+P352 - IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| EUH-statements                 | : EUH206 - Warning! Do not use together with other products. May release dangerous gases (chlorine).  |

### 2.3. Other hazards

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name                | Product identifier   | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---------------------|--|-----|---|
| Sodium hypochlorite | CAS-no: 7681-52-9<br>EC-No.: 231-668-3<br>EC Index-No.: 017-011-00-1<br>REACH-no: 01-2119488154-34 | 0.5 | Met. Corr. 1, H290<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1)<br>EUH031 |

### Specific concentration limits:

| Name                | Product identifier   | Specific concentration limits (%) |
|---------------------|--|-----------------------------------|
| Sodium hypochlorite | CAS-no: 7681-52-9<br>EC-No.: 231-668-3<br>EC Index-No.: 017-011-00-1<br>REACH-no: 01-2119488154-34 | (5 ≤ C ≤ 100) EUH031              |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                |   |
|----------------|---|
| General advice | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).   |
| Inhalation     | : Allow affected person to breathe fresh air. Allow the victim to rest.   |
| Skin contact   | : Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). |
| Eye contact    | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.                              |
| Ingestion      | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.  |

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

|                          |  |
|--------------------------|--|
| Acute effects skin       | : Causes skin irritation.                      |
| Acute effects eyes       | : Causes serious eye irritation. Redness.      |
| Acute effects oral route | : May cause irritation to the digestive tract. |

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Water.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

#### For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Absorb spillage to prevent material damage.

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : May be corrosive to metals.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
- Hygiene measures : Wash hands, forearms and face thoroughly after handling.

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

- Storage conditions : Store in a cool, well-ventilated place. Store in original container. Keep container closed when not in use.
- Incompatible products : Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.
- Packaging materials : Store in corrosive resistant container with a resistant inner liner.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Personal protection equipment

##### Personal protective equipment:

Avoid all unnecessary exposure.

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses. Wear eye protection

#### Skin protection

##### Protective equipment:

Wear suitable protective clothing

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### Hand protection:

Wear protective gloves

### Other skin protection

#### Materials for protective clothing:

Wear protective clothing

### Environmental exposure controls

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|   |   |
|---|---|
| Physical state                                  | : Liquid  |
| Colour  | : Pale yellow.  |
| Physical state/form                             | : Liquid.   |
| Odour   | : Characteristic.   |
| Odour threshold                                 | : Not available   |
| Melting point/range                             | : Not available   |
| Freezing point                                  | : Not determined as it is not relevant for the characterization of the product  |
| Boiling point/Boiling range                     | : 100 °C  |
| Flammability                                    | : Non flammable.  |
| Lower explosion limit                           | : Constituents do not contain chemical groups associated with explosivity   |
| Upper explosion limit                           | : Constituents do not contain chemical groups associated with explosivity   |
| Flash point                                     | : > 93 °C   |
| Autoignition temperature                        | : Determination of the auto-ignition temperature is only relevant for pyrophoric liquids, however the mixture is not a pyrophoric liquid so the test is not required. |
| Decomposition temperature                       | : Only applies to self-reactive substances and mixtures, organic peroxides, and other substances and mixtures that may decompose.                                     |
| pH  | : 11  |
| Viscosity, kinematic                            | : Thin liquid   |
| Viscosity, dynamic                              | : < 20 cP at 20 °C  |
| Solubility                                      | : soluble in water.   |
| Partition coefficient n-octanol/water (Log Kow) | : Not available   |
| Vapour pressure                                 | : Not available   |
| Vapour pressure at 50°C                         | : Not available   |
| Density   | : Not available   |
| Relative density                                | : 1.008 g/cm <sup>3</sup>   |
| Relative vapour density at 20°C                 | : Not available   |
| Particle characteristics                        | : Not applicable  |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases. metals. May be corrosive to metals.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

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Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

### Sodium hypochlorite (7681-52-9)

|                                   |  |
|-----------------------------------|--|
| LD50 oral rat                     | 1100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other: |
| LD50 oral                         | 8910 mg/kg bodyweight  |
| LD50 dermal rabbit                | > 20000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:                    |
| LD50 dermal                       | > 20000 mg/kg bodyweight   |
| LC50 Inhalation - Rat (Dust/Mist) | > 10500 mg/l   |
| LC50 Inhalation - Rat (Vapours)   | > 10.5 mg/l  |

Skin corrosion/irritation : Causes skin irritation.  
pH: 11

### Sodium hypochlorite (7681-52-9)

|    |    |
|----|----|
| pH | 11 |
|----|----|

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 11

### Sodium hypochlorite (7681-52-9)

|    |    |
|----|----|
| pH | 11 |
|----|----|

Respiratory or skin sensitisation : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Germ cell mutagenicity : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Carcinogenicity : Not classified  
Additional information : Based on available data, the classification criteria are not met

### Sodium hypochlorite (7681-52-9)

|            |                      |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

Reproductive toxicity : Not classified  
Additional information : Based on available data, the classification criteria are not met  
STOT-single exposure : Not classified  
Additional information : Based on available data, the classification criteria are not met

### Sodium hypochlorite (7681-52-9)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

STOT-repeated exposure : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Aspiration hazard : Not classified  
Additional information : Based on available data, the classification criteria are not met

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|                      |             |
|----------------------|-------------|
| Viscosity, kinematic | Thin liquid |
|----------------------|-------------|

## 11.2. Information on other hazards

### Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

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| Sodium hypochlorite (7681-52-9)    |   |
|------------------------------------|---|
| LC50 - Fish [1]                    | 2.1 mg/l  |
| EC50 - Crustacea [1]               | 141 µg/l Test organisms (species): Daphnia magna  |
| EC50 - Crustacea [2]               | 35 µg/l Test organisms (species): Ceriodaphnia dubia  |
| EC50 - Other aquatic organisms [1] | 0.141 mg/l waterflea  |
| EC50 72h - Algae [1]               | 0.0365 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2]               | 0.0183 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

### 12.2. Persistence and degradability

| VERSAN RTU                    |                |
|-------------------------------|----------------|
| Persistence and degradability | Biodegradable. |

### 12.3. Bioaccumulative potential

| VERSAN RTU                |                     |
|---------------------------|---------------------|
| Bioaccumulative potential | No bioaccumulation. |

| Sodium hypochlorite (7681-52-9) |       |
|---------------------------------|-------|
| Log Pow                         | -3.42 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

| VERSAN RTU   |  |
|--|--|
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |  |

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

| VERSAN RTU        |                                   |
|-------------------|-----------------------------------|
| Other information | Avoid release to the environment. |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Waste / unused products

: Avoid release to the environment.

HP Code

: HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

HP12 - "Release of an acute toxic gas:" waste which releases acute toxic gases (Acute

Tox. 1, 2 or 3) in contact with water or an acid

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR                                     | IMDG          | IATA          |
|---|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |
| Not regulated for transport             |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |
| Not regulated                           | Not regulated | Not regulated |

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| ADR                                    | IMDG          | IATA          |
|--|---------------|---------------|
| <b>14.5. Environmental hazards</b>     |               |               |
| Not regulated                          | Not regulated | Not regulated |
| No supplementary information available |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

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

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### Detergent Regulation (EC 648/2004)

| Labelling of contents           |     |
|---------------------------------|-----|
| Component                       | %   |
| chlorine-based bleaching agents | <5% |

##### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources

: 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.

Other information

: None.

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### Full text of H- and EUH-statements:

|                   |  |
|-------------------|--|
| Aquatic Acute 1   | Hazardous to the aquatic environment – Acute Hazard, Category 1                            |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1                          |
| EUH031            | Contact with acids liberates toxic gas.  |
| Eye Dam. 1        | Serious eye damage/eye irritation, Category 1  |
| Met. Corr. 1      | Corrosive to metals, Category 1  |
| Skin Corr. 1B     | Skin corrosion/irritation, Category 1, Sub-Category 1B                                     |
| STOT SE 3         | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H290              | May be corrosive to metals.  |
| H314              | Causes severe skin burns and eye damage.   |
| H315              | Causes skin irritation.  |
| H318              | Causes serious eye damage.   |
| H319              | Causes serious eye irritation.   |
| H335              | May cause respiratory irritation.  |
| H400              | Very toxic to aquatic life.  |
| H410              | Very toxic to aquatic life with long lasting effects.                                      |
| H412              | Harmful to aquatic life with long lasting effects.   |
| EUH206            | Warning! Do not use together with other products. May release dangerous gases (chlorine).  |

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|                   |      |                    |
|-------------------|------|--------------------|
| Met. Corr. 1      | H290 | Calculation method |
| Skin Irrit. 2     | H315 | Expert judgement   |
| Eye Irrit. 2      | H319 | Expert judgement   |
| Aquatic Chronic 3 | H412 | Calculation method |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.