

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date first issue: 08/11/2017 Review date: 11/01/2023 Supersedes version of: 16/10/2020 Version: 2.2

	nce/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)
Product group	: Mixture
1.2. Relevant identified uses of the substan	ce or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: Industrial For professional use only
Use of the substance/mixture	: Disinfectant
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety data	a sheet
Manufacturer	Supplier
Clover Chemicals Ltd Clover House Macclesfield Road SK23 7DQ Whaley Bridge – Derbyshire United Kingdom T 01663 733114 - F 01663 733115	Christeyns NV Afrikalaan 182 9000 GENT Belgium T +32 (0)9/ 223 38 71 - F +32 (0)9/ 233 03 44
info@cloverchemicals.com - www.cloverchemicals.c	
1.4 Emorgonov tolonhono numbor	

1.4. Emergency telephone number

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

CLP Signal word Hazard statements (CLP) : Warning

GHS05

: 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. P234 - Keep only in original packaging. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves, eye protection. P302+P352 - IF ON SKIN: Wash with plenty of water. 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	

Other haz

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

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

Contains no PBT/vPvB substances ≥ 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 is 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

3.1. Substances

Not applicable

3.2. Mixtures

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

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Sodium hypochlorite	CAS-no: 7681-52-9 Einecs nr: 231-668-3 EG annex nr: 017-011-00-1 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

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 ef	
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 medi	cal attention and special treatment needed

No additional information available

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: Use extinguishing media appropriate for surrounding fire. Water.
bstance or mixture re : Toxic fumes may be released.
: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
: Do not enter fire area without proper protective equipment, including respiratory protection.
sures uipment and emergency procedures
: Evacuate unnecessary personnel.
: Equip cleanup crew with proper protection.
: Ventilate area.
y authorities if liquid enters sewers or public waters. Avoid release to the environment.
ent and 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.
protection.
: May be corrosive to metals.
: 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.
: Wash hands, forearms and face thoroughly after handling.
ng any incompatibilities : Store in a cool, well-ventilated place. Store in original container. Keep container closed when not in use.
: Strong acids.
: Sources of ignition. Direct sunlight.
: Store in corrosive resistant container with a resistant inner liner.

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available **8.1.3. Air contaminants formed**

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls No additional information available

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8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection Eye protection: Chemical goggles or safety glasses

8.2.2.2. Skin protection Protective equipment:

Wear suitable protective clothing

Hand protection: Wear protective gloves.

8.2.2.3. Respiratory protection No additional information available

8.2.2.4. Thermal hazards No additional information available

8.2.3. 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 available
Boiling point/Boiling range	: 100 °C
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 93 °C
Autoignition temperature	: Not available
Decomposition temperature	: Not available
рН	: 11
Viscosity, kinematic	: Not available
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
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

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

Sodium hypochlorite (7681-52-9)		
LD50 oral rat	> 2000 mg/kg	
LD50 oral	8910 mg/kg bodyweight	
LD50 dermal rabbit	> 2000 mg/kg	
ATE CLP (oral)	8910 mg/kg bodyweight	
Skin corrosion/irritation	: Causes skin irritation.	
	рН: 11	
Serious eye damage/irritation	: Causes serious eye irritation.	
	рН: 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	
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	
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	
11.2. Information on other hazards		
11.2.1. Endocrine disrupting properties		

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms

: Based on available data, the classification criteria are not met

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2.1. Toxicity cology - water azardous to the aquatic environment, short-term acute) azardous to the aquatic environment, long-term chronic) ot rapidly degradable	 Harmful to aquatic life with long lasting effects. Not classified Harmful to aquatic life with long lasting effects.
azardous to the aquatic environment, short-term acute) azardous to the aquatic environment, long-term chronic)	: Not classified
azardous to the aquatic environment, long-term chronic)	: Harmful to aquatic life with long lasting effects.
ot rapidly degradable	
Sodium hypochlorite (7681-52-9)	
_C50 - Fish [1]	0.06 mg/l (fresh water)
_C50 - Fish [2]	0.032 mg/l (marine water)
EC50 - Crustacea [1]	0.141 mg/l (Daphnia magna - fresh water)
EC50 - Other aquatic organisms [1]	0.026 mg/l (Crassostrea virginica - marine water)
2.2. Persistence and degradability	
VERSAN RTU	
Persistence and degradability	Biodegradable.
Sodium hypochlorite (7681-52-9)	
Persistence and degradability	Strong oxidizing agent. It will react with organic substances present in soil and sediments and degrades rapidly to chloride. Sodium hypochlorite is substantially removed in biological treatment processes.
2.3. Bioaccumulative potential	
VERSAN RTU	
Bioaccumulative potential	No bioaccumulation.
Sodium hypochlorite (7681-52-9)	
_og Pow	-3.42
Bioaccumulative potential	Bioaccumulation unlikely.
2.4. Mobility in soil o additional information available 2.5. Results of PBT and vPvB assessment	
VERSAN RTU	
This substance/mixture does not meet the PBT crite	aria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB crit	
2.6. Endocrine disrupting properties o additional information available	
2.7. Other adverse effects dditional information	: Avoid release to the environment.
ECTION 13: Disposal considerations	
3.1. Waste treatment methods roduct/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.
/aste / unused products	: Avoid release to the environment.
P Code	: 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	ΙΑΤΑ
14.1. UN number or ID number		
Not regulated	Not regulated	Not regulated

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ADR	IMDG	ΙΑΤΑ		
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated		
14.3. Transport hazard class(es)		·		
Not regulated	Not regulated	Not regulated		
14.4. Packing group		·		
Not regulated	Not regulated	Not regulated		
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated		
No supplementary information available		1		

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

15.1.1. 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 (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (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 (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)

15.1.2. National regulations

No additional information available

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.

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Other information

: None.

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.	
EUH206	Warning! Do not use together with other products. May release dangerous gases (chlorine).	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
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.	
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.	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]		
H290	Calculation method	
H315	Expert judgment	
H319	Expert judgment	
H412	Calculation method	
	H290 H315 H319	

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.