

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

1.1. Product identifier

Trade name : CoviPure™
Type of product : Biocidal products

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Disinfectant - Biocide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

CoviPure™
10 West Street,
Alderley Edge,
SK9 7EG
T +44 (0) 808 275 0906
info@covipure.co.uk
www.covipure.co.uk

Email competent person info

info@covipure.co.uk

1.4. Emergency telephone number

Emergency number : National Health Service (NHS)
24 hour national number
Consumer England and Scotland: 111
Wales: 0845 46 47
Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

Extra phrases : The additional label requirements of directive EU 528/2012 about the available on the market and use of biocidal products in article 69 have to be observed.

2.3. Other hazards

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

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]
Hypochlorous acid	(CAS-No.) 7790-92-3 (EC-No.) 232-232-5	< 0.1	Not classified
chlorine dioxide ... % (Active substance (Biocide)) (Note B)	(CAS-No.) 10049-04-4 (EC-No.) 233-162-8 (EC Index-No.) 017-026-01-0	< 0.1	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10)
sodium hypochlorite, solution (Note B)	(CAS-No.) 7681-52-9 (EC-No.) 231-668-3 (EC Index-No.) 017-011-00-1 (REACH-no) 01-2119488154-34-xxxx	< 0.1	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
chlorine dioxide ... % (Active substance (Biocide))	(CAS-No.) 10049-04-4 (EC-No.) 233-162-8 (EC Index-No.) 017-026-01-0	(0.3 ≤ C < 3) Eye Irrit. 2, H319 (1 ≤ C < 5) Skin Irrit. 2, H315 (3 ≤ C < 5) Eye Dam. 1, H318 (3 ≤ C ≤ 100) STOT SE 3, H335 (5 ≤ C ≤ 100) Skin Corr. 1B, H314
sodium hypochlorite, solution	(CAS-No.) 7681-52-9 (EC-No.) 231-668-3 (EC Index-No.) 017-011-00-1 (REACH-no) 01-2119488154-34-xxxx	(5 ≤ C ≤ 100) EUH031

Note B : Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : This product is not classified under Regulation EU 1272/2008 and no hazard was identified when used in the manner suggested. Like all chemical products, certain circumstances like over dosing may give rise to people not feeling well. In all cases of doubt, or when symptoms persist, seek medical attention.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : No skin hazard was identified by classification or dermatological test, however if the skin comes into large quantities due to a spill or other similar situation, rinse skin with plenty of water.
- First-aid measures after eye contact : The product is diluted however if contact with eyes, rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : The product is not for consumption however if you should inadvertently swallow some liquid call a poison center or a doctor if you feel unwell. Rinse mouth out with water. Drink plenty of water. Do not induce vomiting.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : The product is not flammable. Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. chlorine dioxide. Hydrogen chloride.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information : Do not allow run-off from firefighting to enter drains or water courses. Disposal must be done according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid large quantities of product entering into the sewage system and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Other information : Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid letting the product become dry. Potential explosion hazard.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Keep locked up and out of the reach of children. Keep only in original container.

Maximum storage period : 18 months

Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs. Store away from. Acids.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

chlorine dioxide ... % (10049-04-4)	
United Kingdom - Occupational Exposure Limits	
Local name	Chlorine dioxide

chlorine dioxide ... % (10049-04-4)	
WEL TWA (mg/m ³)	0.28 mg/m ³
WEL TWA (ppm)	0.1 ppm
WEL STEL (mg/m ³)	0.84 mg/m ³
WEL STEL (ppm)	0.3 ppm
Regulatory reference	EH40/2005 (Third edition, 2018). HSE

sodium hypochlorite, solution (7681-52-9)	
EU - Occupational Exposure Limits	
Local name	Chlorine
IOELV STEL (mg/m ³)	1.5 mg/m ³
IOELV STEL (ppm)	0.5 ppm
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
United Kingdom - Occupational Exposure Limits	
Local name	Chlorine
WEL STEL (mg/m ³)	1.5 mg/m ³
WEL STEL (ppm)	0.5 ppm
Regulatory reference	EH40/2005 (Third edition, 2018). HSE

chlorine dioxide ... % (10049-04-4)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	0.304 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.000021 mg/l
PNEC aqua (marine water)	0.000021 mg/l
PNEC aqua (intermittent, freshwater)	0.0002 mg/l
PNEC (STP)	
PNEC sewage treatment plant	0.01 mg/l

sodium hypochlorite, solution (7681-52-9)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	3.1 mg/m ³
Acute - local effects, inhalation	3.1 mg/m ³
Long-term - systemic effects, inhalation	1.55 mg/m ³
Long-term - local effects, inhalation	1.55 mg/m ³

DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	3.1 mg/m ³
Acute - local effects, inhalation	3.1 mg/m ³
Long-term - systemic effects, oral	0.26 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.55 mg/m ³
Long-term - local effects, inhalation	1.55 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.21 µg/L
PNEC aqua (marine water)	0.042 µg/L
PNEC aqua (intermittent, freshwater)	0.042 µg/L
PNEC (Oral)	
PNEC oral (secondary poisoning)	11.1 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	4.69 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Not required for normal conditions of use

Eye protection:

Not required for normal conditions of use. Use splash goggles when eye contact due to splashing is possible. EN 166

Skin and body protection:

Wear suitable protective clothing. EN 340. EN 13034

Respiratory protection:

No respiratory protection needed under normal use conditions

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	clear.
Colour	:	No data available
Odour	:	Slightly acid.
Odour threshold	:	No data available
pH	:	7 – 8.5 (20 °C)
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	No data available

Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Not flammable
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	Water: completely soluble
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	Product is not explosive.
Oxidising properties	:	Non oxidizing.
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Contact with acids liberates toxic gas.

10.4. Conditions to avoid

Protect from heat and direct sunlight. Keep out of frost.

10.5. Incompatible materials

Combustible materials. metals. Acids. Reducing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. chlorine dioxide. Chlorine.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)

chlorine dioxide ... % (10049-04-4)

LD50 oral rat	93.86 mg/kg bodyweight (OECD 401 method)
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Skin corrosion/irritation	:	Not classified (Based on available data, the classification criteria are not met) pH: 7 – 8.5 (20 °C)
Serious eye damage/irritation	:	Not classified (Based on available data, the classification criteria are not met) pH: 7 – 8.5 (20 °C)
Respiratory or skin sensitisation	:	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	:	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	:	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	:	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	:	Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	:	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	:	Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1 Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

chlorine dioxide ... % (10049-04-4)	
LC50 fish 1	0.021 mg/l (96 h; Danio rerio)
NOEC chronic fish	500 mg/l

sodium hypochlorite, solution (7681-52-9)	
LC50 fish 1	0.032 – 0.167 mg/l (96 h)
EC50 Daphnia 1	0.035 mg/l (48 h; Ceriodaphnia dubia; (OECD 202 method))
EC50 72h algae	0.0183 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method))
NOEC chronic fish	0.04 mg/l (28 d; Menidia peninsulae)

12.1. Persistence and degradability

Hypochlorous acid (7790-92-3)	
Persistence and degradability	Not applicable for inorganic substances.

chlorine dioxide ... % (10049-04-4)	
Persistence and degradability	Not applicable for inorganic substances.

12.2. Bioaccumulative potential

Hypochlorous acid (7790-92-3)	
Bioaccumulative potential	Not applicable for inorganic substances.

chlorine dioxide ... % (10049-04-4)	
Bioaccumulative potential	Not applicable for inorganic substances.

sodium hypochlorite, solution (7681-52-9)	
Partition coefficient n-octanol/water (Log Pow)	-3.42 (pH 12,5; 20°C; Calculation method)
Bioaccumulative potential	There is no bioaccumulation.

12.3. Mobility in soil

chlorine dioxide ... % (10049-04-4)	
Ecology - soil	Expected to be highly mobile in soil.

12.4. Results of PBT and vPvB assessment

CoviPure™	
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	

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : For disposal of large quantities, contact the local environmental authorities. In domestic situations, dispose of product as you would with bleach.

Product/Packaging disposal recommendations : Recycle or dispose of in compliance with current legislation.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on
3(b)	chlorine dioxide ... % ; sodium hypochlorite, solution
3(c)	chlorine dioxide ... % ; sodium hypochlorite, solution

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutant

Other information, restriction and prohibition :
regulations

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis. Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products. The additional label requirements of directive EU 528/2012 about the available on the market and use of biocidal products in article 69 have to be observed. Every advertisement for biocides has to be accompanied by following sentence: Use biocides safely. Always read the label and product information before use.

Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products

This product contains biocidal products

Type of product (Biocide)

: 2 - Disinfectants and algacides not intended for direct application to humans or animals, 3 - Veterinary hygiene, 4 - Food and feed area, 5 - Drinking water, 11 - Preservatives for liquid-cooling and processing systems, 12 - Slimecides

Authorisation number

: -

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

Indication of changes:			
General revision.			
Section	Changed item	Change	Comments
2.2	Labelling according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
3.2	Components	Modified	
8.1	Control parameters	Modified	
8.1	Control parameters	Modified	
8.2	Personal protective equipment	Modified	
9.1	Physical and chemical properties	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	
15	EU-Regulations	Modified	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : ECHA (European Chemicals Agency). MSDS of the supplier.
 Department issuing data specification sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Germany
 Phone: +49 6155-8981-400 Fax: +49 6155 8981-500
 Safety Data Sheet Service: +49 6155 8981-522
 Contact person : Dr. Barbara Ridder
 Other information : A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
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	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals.
H301	Toxic if swallowed.
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.

KFT SDS EU 00

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.