

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** CoViGuard 24h/7**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses: creates an antiviral and antibacterial coating which provides 24-hour complete protection against bacteria and viruses. It is intended for smooth surfaces, e.g. metal, glass and plastic.

Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Supplier: **HYDROSAFEGUARD S.A.**

Address: Al. Kościuszki 80/82 lok 1001, 90-437 Łódź, Poland

Telephone number: +48 732 777 337

E-mail address for a competent person responsible for SDS: biuro@hydrosafeguard.com

1.4 Emergency telephone number

112

Section 2: Hazards identification**2.1 Classification of the substance or mixture**

The mixture is not classified as hazardous for human health and life and for the environment.

2.2 Label elements

Hazard pictograms and signal words

None.

Hazard statements

None.

Precautionary statements

None.

Additional informations

EUH208 Contains: 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

2.3 Other hazards

Product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

Section 3: Composition/information on ingredients**3.2 Mixtures**

CAS number: 13463-67-7 EC number: 236-675-5 Index number: — Registration number: 01-2119849379-17-XXXX	<u>titanium dioxide</u> substance is not classified as hazardous	< 0,15 %
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CAS number: 13463-41-7 EC number: 236-671-3 Index number: — Registration number: —	<u>pyrithione zinc</u> Acute Tox. 3 H301, Eye Dam. 1 H318, Acute Tox. 2 H330, Aquatic Acute 1 H400 (M=100), Aquatic Chronic 1 H410 (M=10)	< 0,015 %
CAS number: 2634-33-5 EC number: 220-120-9 INDEX number: 613-088-00-6 Registration number: 01-2120761540-60-XXXX	<u>1,2-benzisothiazol-3(2H)-one</u> Acute Tox. 4 H302, Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Dam. 1 H318, Acute Tox. 2 H330, Aquatic Acute 1 H400 (M=1), Aquatic Chronic 2 H411 <u>Specific limit concentration</u> Skin Sens. 1 H317: C ≥ 0,05 %	< 0,003 %

Full text of each relevant H phrase is given in section 16 of SDS.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: take off contaminated clothes. Wash contaminated skin with water and soap. Consult a doctor if disturbing symptoms occur.

Eye contact: protect non-irritated eye, remove contact lenses. Wash the contaminated eye with plenty of water for at least 15 minutes, with wide eyelids open. Avoid powerful water stream – risk of cornea damage. Consult a doctor if disturbing symptoms occur.

Ingestion: rinse mouth with water. Never give anything to drink to an unconscious person. Do not induce vomiting. Consult a doctor, if disturbing symptoms appear, show the packaging or label.

Inhalation: remove to fresh air, keep warm and calm. Consult a doctor, if disturbing symptoms appear.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: possible redness, itching, allergic reactions in particularly sensitive people.

Eye contact: possible redness, tearing.

Ingestion: swallowing large amounts of product may cause abdominal pain, nausea, vomiting, diarrhea.

Inhalation: adverse effects are not expected by this way of exposure when the product is used correctly.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: carbon dioxide, foam, extinguishing powder, water spray. Adapt the extinguishing media to surrounding materials.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture

During the fire, the product may produce harmful vapors and gases containing carbon oxides and other unidentified products of thermal decomposition. Do not inhale combustion products, they can be dangerous for human health.

5.3 Advice for firefighters

Evacuate unauthorized persons from the area of failure. Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Do not let extinguishing water reach drainage system, ground and surface waters. Collect used extinguishing media.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that effects of the breakdown are removed only by qualified personnel. In case of large spills, isolate the exposed area. Avoid contact with skin and eyes.

6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

6.3 Methods and material for containment and cleaning up

Small quantities should be wiped with a suitable absorbent. If large amounts are released, stop the leak and remove the container if it can be done without danger. Do not walk on spilled material – risk of slipping. Absorb leakage with liquid-binding material (e.g. sand, earth, vermiculite, diatomaceous earth) and transfer to appropriate waste disposal containers. Treat collected material as a waste and hand it over to an authorized company for disposal. Clean and ventilate contaminated area.

6.4 Reference to other sections

Appropriate conduct with waste product – see section 13. Personal protective equipment – see section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke in places where the product is transferred, processed and stored. Avoid eyes and skin contamination. Before breaks and after work wash hands. Work in well-ventilated rooms. Keep the unused containers tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original, tightly closed containers. Keep away from food, beverages or feed for animals.

7.3 Specific end use(s)

Applications submitted in accordance with section 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Product does not contain any components with occupational exposure limit values at working place. Please check any national occupational exposure limit values in your country.

Legal Basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EU, 2017/164/EU, 2019/183/EU.

8.2 Exposure controls

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink and smoke when using the product. Avoid eyes and skin contact. Ensure good general and/or local ventilation.

Hand protection

Use protective gloves, resistant to the product. Material for gloves select individually at the workplace.

The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed

Body protection

Wear clothing to protect against dirt.

Eye protection

If there is a risk of eye contamination, use tight protective goggles.

Respiratory protection

Under normal conditions, it is not required.

Applied personal protective equipment must comply with the requirements of the Regulation 2016/425/EU. The employer is obliged to provide protective equipment relevant to performed activities and in accordance with all quality requirements, including its maintenance and cleaning.

Environmental exposure controls

Do not allow to enter large amounts of product to reach ground water, sewage, waste water or soil. Possible emissions from the ventilation systems and processing equipment should be controlled in order to determinate their compatibility with environmental protection regulations.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

physical state/ form:	liquid
colour:	milk, transparent
odour:	characteristic
odour threshold:	not determined
pH:	7 - 8
melting point/freezing point:	not determined
initial boiling point and boiling range:	not determined
flash point:	not determined
evaporation rate:	not determined
flammability (solid, gas):	not applicable
upper/lower flammability or explosive limits:	not determined
vapour pressure:	not determined
vapour density:	not determined
density:	1,01±1,03 g/cm ³
solubility(ies):	soluble in water
partition coefficient: n-octanol/water:	not determined
auto-ignition temperature:	not determined
decomposition temperature:	not determined
explosive properties:	not display
oxidising properties:	not display
viscosity:	not determined

9.2 Other information

No additional test results.

Section 10: Stability and reactivity

10.1 Reactivity

No information about dangerous reactivity. Product does not undergo polymerization.

10.2 Chemical stability

The product is stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions

Dangerous reactions are not known.

10.4 Conditions to avoid

Avoid direct sunlight, sources of heat and fire.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

Not known.

Section 11: Toxicological information**11.1 Information on toxicological effects**

Acute toxicity of the mixture (ATE_{mix}) was calculated taking into account the testing of components classified after acute toxicity and the corresponding conversion factor included in Table 3.1.2. of Annex I to the CLP Regulation, as amended.

Acute toxicity

ATE_{mix} (oral)	> 2 000 mg/kg
ATE_{mix} (skin)	> 2 000 mg/kg
ATE_{mix} (vapour inhalation)	> 20 mg/l
ATE_{mix} (mists inhalation)	> 5 mg/l

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

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met. However, the product contains component that may cause allergic skin reaction in particularly sensitive people.

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Section 12: Ecological information

12.1 Toxicity

Toxicity of components

pyrithione zinc [CAS 13463-41-7]

EC ₅₀ /72h	0,051 mg/l (Algae, Pseudokirchneriella subcapitata)
EC ₅₀ /72h	0,0013 mg/l (Algae, Skeletonema costatum)
EC ₅₀ /48h	0,051 mg/l (Daphnia)
LC ₅₀ /96h	0,0104 mg/l (Fish, zebrafish)
NOEC/21d	0,0022 mg/l (Daphnia)
NOEC/28d	0,00125 mg/l (Fish, zebrafish)
NOEC/72h	0,0149 mg/l (Algae, Pseudokirchneriella subcapitata)
NOEC/96h	0,00046 mg/l (Algae, Skeletonema costatum)

1,2-benzisothiazol-3(2H)-one [CAS 2634-33-5]

EC ₅₀ /72h	0,11 mg/l (Algae)
EC ₅₀ /48h	3,27 mg/l (Daphnia)
LC ₅₀ /96h	1,6 mg/l (Fish, zebrafish)
NOEC/21d	1,2 mg/l (Daphnia)
NOEC/28d	0,21 mg/l (Fish, zebrafish)
NOEC/72h	0,04 mg/l (Algae)

Toxicity of components

Product is not classified as hazardous for the aquatic environment.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

Mobility of components of the mixture in soil depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5 Results of PBT and vPvB assessment

Product does not contain ingredients, which meet criteria for PBT or vPvB.

12.6 Other adverse effects

Product is not classified as hazardous to the ozone layer. Consider other harmful effects of individual components of the mixture on the environment (eg, endocrine disrupting potential, global warming potential).

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the product: disposal in accordance with the local legislation. Do not empty into drains. Store the mixture in original packaging. Waste code should be given in the place of waste formation.

Disposal methods for used packaging: reuse/recycle/eliminate empty containers in accordance with the local legislation. Only completely emptied packaging can be recycled.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

Section 14: Transport information

14.1 UN number

Not applicable. Product is not classified as hazardous during sea, air and land transport.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization 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 as amended.

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 as amended.

Commission Regulation (EU) No 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).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Regulation (EU) No 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for mixtures in accordance with REACH Regulation.

Section 16: Other information

Full text of indicated H phrases mentioned in section 3

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
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.

Clarification of aberrations and acronyms

Acute Tox. 2, 3, 4	Acute Toxicity category 2, 3, 4
Aquatic Chronic 1, 2	Toxicity for aquatic organisms – chronic toxicity category 1, 2
Aquatic Acute 1	Toxicity for aquatic organisms – acute toxicity category 1
Eye Dam. 1	Serious eye damage category 1
Skin Irrit. 2	Skin irritation category 2
Skin Sens. 1	Skin sensitization category 1
PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Key literature references and data sources

This SDS was prepared on the basis of sheets of the individual components provided by the manufacturer, literature data, online databases, our knowledge and experience, taking into account the current legislation.

Procedures used to classify the mixture

Classification was based on physico-chemical data and data on hazardous substances calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended.

Other data

Safety Data Sheet made by: **„THETA“** Doradztwo Techniczne

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.