

**Sicherheitsdatenblatt**  
gemäß 1907/2006/EG, Artikel 31

Printing date 07.04.2025

Version number 7 (replaces version 6)

Revision: 07.04.2025

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

- **1.1 Product identifier**
- **Trade name:** **BWT CW-BIO D 3**
- **UFI:** 6W70-X0GW-N00A-PSN2
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** *None known.*
- **Application of the substance / the mixture**  
Bactericide  
Biocide
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
BWT Holding GmbH  
Walter-Simmer-Straße 4  
A - 5310 Mondsee  
AUSTRIA  
Tel.: +43/6232/5011-0  
Fax: +43/6232/4058  
email: office@bwt.at
- **Further information obtainable from:**  
Abteilung F&E - Chemikalienbeauftragte(r)  
Tel.: +43/6232/5011-1893  
+43/6232/5011-1427  
email: msds-info@bwt-group.com
- **1.4 Emergency telephone number:**  
Poison center Vienna  
Tel.: +43/1-406 43 43

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

STOT RE 1      H372 Causes damage to the respiratory tract through prolonged or repeated exposure.  
Route of exposure: Inhalation.



GHS05 corrosion

Met. Corr. 1      H290 May be corrosive to metals.  
Eye Dam. 1      H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2      H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4      H302 Harmful if swallowed.  
Acute Tox. 4      H332 Harmful if inhaled.  
Skin Irrit. 2      H315 Causes skin irritation.  
Skin Sens. 1      H317 May cause an allergic skin reaction.

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**Trade name: BWT CW-BIO D 3**

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## · 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



GHS05   GHS07   GHS08   GHS09

### · Signal word Danger

### · Hazard-determining components of labelling:

2,2-dibromo-2-cyanoacetamide

### · Hazard statements

H290      May be corrosive to metals.

H302+H332 Harmful if swallowed or if inhaled.

H315      Causes skin irritation.

H318      Causes serious eye damage.

H317      May cause an allergic skin reaction.

H372      Causes damage to the respiratory tract through prolonged or repeated exposure. Route of exposure: Inhalation.

H411      Toxic to aquatic life with long lasting effects.

### · Precautionary statements

P260      Do not breathe dust/fume/gas/mist/vapours/spray.

P270      Do not eat, drink or smoke when using this product.

P273      Avoid release to the environment.

P280      Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406      Store in a corrosion resistant container / container with a resistant inner liner.

P501      Dispose of contents/container in accordance with local/regional/national/international regulations.

### · Additional information:

Contains biocidal products: 2,2-dibromo-2-cyanoacetamide

## · 2.3 Other hazards

### · Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### · Determination of endocrine-disrupting properties

CAS: 10222-01-2   2,2-dibromo-2-cyanoacetamide

List I

## SECTION 3: Composition/information on ingredients

### · 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

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
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**· Dangerous components:**

CAS: 10222-01-2 EINECS: 233-539-7	2,2-dibromo-2-cyanoacetamide  Acute Tox. 3, H301; Acute Tox. 2, H330  STOT RE 1, H372  Eye Dam. 1, H318  Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1)  Skin Irrit. 2, H315; Skin Sens. 1, H317 ATE: LD50 oral: 118 mg/kg LC50/4 h inhalative: 0,24 mg/l	≥10-<25%
CAS: 25322-68-3 NLP: 500-038-2	Polyethylene glycol substance with a Community workplace exposure limit	2,5-10%

**· Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**· 4.1 Description of first aid measures**
**· General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**· After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**· After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

**· After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

Call a doctor immediately.

**· After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting.

Call for a doctor immediately.

**· 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions**
**· 4.3 Indication of any immediate medical attention and special treatment needed**

Rinse eyes with physiological saline solution. Pain relief with chibro-kerakain drops.

If swallowed, gastric irrigation with added, activated carbon.

### SECTION 5: Firefighting measures

**· 5.1 Extinguishing media**
**· Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**· 5.2 Special hazards arising from the substance or mixture**

Smoke may be produced during a fire. Products of combustion may contain carbon monoxide and carbon dioxide. Do not inhale smoke.

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Bromine compounds like HBr, Br<sub>2</sub>

During heating or in case of fire poisonous gases are produced.

**· 5.3 Advice for firefighters**
**· Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

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**Trade name: BWT CW-BIO D 3**

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· **Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Keep people at a distance and stay on the windward side.

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· **6.3 Methods and material for containment and cleaning up:**

Take up leaking material with non-combustible, absorbent material (e.g. sand, diatomaceous earth).

Clean the affected area carefully; suitable cleaners are:

Weak alkaline solution

Ensure adequate ventilation.

Dispose contaminated material as waste according to section 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Use closed appliances wherever possible.

Containers with biocidal products must be kept closed when not in immediate use.

Restrict the quantity stored at the work place.

Employees with a skin allergy to the substance contained in this product should not be required to work with this product.

Transfer carefully, avoid spillage

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about fire - and explosion protection:** Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Biocidal products must be stored in such a way that human health and the environment are not jeopardised.

Store only in the original receptacle.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:**

The product naturally develops small amounts of carbon dioxide in its delivery form. To prevent an increase in pressure in the container, valve lids are used to allow container breathing. However, to avoid product leakage, it must be ensured that the containers are always stored upright.

Maximum storage temperature: 35° C

Keep container tightly sealed.

· **Storage class:** 6.1 D

· **Classification according to the German Ordinance on Industrial Safety and Health (BetrSichV):**

Substance or mixture corrosive to metals

· **7.3 Specific end use(s)** No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

**CAS: 10222-01-2 2,2-dibromo-2-cyanoacetamide**

MAK (Germany) vgl. Abschn. IIb und Xc

**CAS: 25322-68-3 Polyethylene glycol**

AGW (Germany) Long-term value: 200 E mg/m<sup>3</sup>  
2(II); DFG, Y

· **Additional information:** The lists valid during the making were used as basis.

### · 8.2 Exposure controls

#### · Appropriate engineering controls

Facilities must be available to rinse the wetted areas immediately with running water in the event of skin or eye contact.

#### · Individual protection measures, such as personal protective equipment

##### · General protective and hygienic measures:

Use skin protection cream for skin protection.

Ensure that washing facilities are available at the work place.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

##### · Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.

Half or full face mask with filter against organic gases and vapours with boiling point > 65 °C and against solid and liquid particles of harmful substances (EN 14387).

Filter A/P2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

##### · Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Preventive skin protection by use of skin-protecting agents is recommended.

Check protective gloves prior to each use for their proper condition.

Long cuffed gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### · Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

##### · Penetration time of glove material

Thickness: 0.4 mm

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).

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

· **Not suitable are gloves made of the following materials:** Leather gloves

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· **Eye/face protection**

Tightly sealed goggles

(Basket goggles DIN 58211, EN 166)

· **Body protection:** Use protective suit.· **Thermal hazards** Not expected when used as intended.· **Environmental exposure controls**

Prevent the product from entering the sewage system or surface and ground water.

· **Risk management measures**

Observe employment restrictions and prohibitions (see section 15).

Instruct employees.

Inspect workplaces regularly, e.g. by occupational safety specialists.

\*

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Physical state**

Liquid

· **Colour:**

Yellowish

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

-24 °C

· **Boiling point or initial boiling point and boiling range**

100 °C

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable.

· **Decomposition temperature:**

Not determined.

· **pH at 20 °C**

2,4

· **Viscosity:**· **Kinematic viscosity**

Not determined.

· **Dynamic:**

Not determined.

· **Solubility**· **water:**

Fully miscible.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Vapour pressure:**

Not determined.

· **Density and/or relative density**· **Density at 20 °C:**1,2 g/cm<sup>3</sup>· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **9.2 Other information**· **Appearance:**· **Form:**

Fluid

· **Important information on protection of health and environment, and on safety.**· **Ignition temperature:**

Product is not selfigniting.

· **Explosive properties:**

Product does not present an explosion hazard.

· **Solvent content:**· **Water:**

70,0 %

· **VOC (EC)**

0,00 %

· **Solids content:**

20,0 %

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- **Change in condition**
- **Evaporation rate** Not determined.
- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** May be corrosive to metals.
- **Desensitised explosives** Void

\*

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** Substances or mixtures having a corrosive effect on metals.
- **10.2 Chemical stability**  
Best before: 6 months from production date  
To avoid negative influences on the active substance(s), the product should not be diluted or mixed with other chemicals.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with oxidising agents.  
Exothermic reaction.  
Contact with alkali releases toxic gases.
- **10.4 Conditions to avoid** Heat exposure
- **10.5 Incompatible materials:**  
Oxidising agent  
Bases  
Amines  
Nucleophiles
- **10.6 Hazardous decomposition products:**  
Dibromoacetonitrile  
Cyanobromide

\*

### SECTION 11: Toxicological information

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

Oral	ATE-mix	590 mg/kg (rat) calculated
Dermal	ATE-mix	>2.000 mg/kg (rat) calculated
Inhalative	ATE-mix	1,2 mg/l /4h (rat) calculated

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· **Acute toxicity** Harmful if swallowed or if inhaled.

· **LD/LC50 values relevant for classification:**

**CAS: 10222-01-2 2,2-dibromo-2-cyanoacetamide**

Oral	LD50	118 mg/kg (ATE)
------	------	-----------------

Dermal	LD50	510 mg/kg (rat)
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Inhalative	LC50/4 h	0,24 mg/l (ATE)
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**CAS: 25322-68-3 Polyethylene glycol**

Oral	LD50	>2.000 mg/kg (rat)
------	------	--------------------

Dermal	LD50	>2.000 mg/kg (rat)
--------	------	--------------------

· **Primary irritant effect:**

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Strong corrosive effect.

Causes serious eye damage.

· **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

· **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**

Causes damage to the respiratory tract through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

CAS: 10222-01-2	2,2-dibromo-2-cyanoacetamide
-----------------	------------------------------

List I

· **Other information** The product contains substances that have an effect on the thyroid gland.

## SECTION 12: Ecological information

· **12.1 Toxicity** Toxic to aquatic organisms, with long lasting effects.

· **Aquatic toxicity:**

LC50 / 48h	3,6 mg/l (gar)
------------	----------------

EC50/72h	11,5 mg/l (desmodesmus subspicatus)
----------	-------------------------------------

NOEC / 21 d	0,3 mg/l (daphnia)
-------------	--------------------

**CAS: 10222-01-2 2,2-dibromo-2-cyanoacetamide**

LC50 / 48h	0,72 mg/l (gar)
------------	-----------------

EC50/72h	2,3 mg/l (desmodesmus subspicatus)
----------	------------------------------------

LC50/96h	3,4 mg/l (Erl)
----------	----------------

NOEC / 21 d	0,06 mg/l (daphnia)
-------------	---------------------

NOEC / 72h	0,36 mg/l (desmodesmus subspicatus)
------------	-------------------------------------

NOEC	0,47 mg/l (reg)
------	-----------------

· **12.2 Persistence and degradability**

**CAS: 10222-01-2 2,2-dibromo-2-cyanoacetamide**

Abbau in Meerswasser	<16 d
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· **Other information:**

Substances are considered rapidly degradable in the environment if, in an aquatic simulation study, the half-life of primary biodegradation is 16 days or less and the degradation products are not classified as hazardous.

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The product is not rapidly degradable.

· **12.3 Bioaccumulative potential**

Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not expected.

**CAS: 10222-01-2 2,2-dibromo-2-cyanoacetamide**

**LOG Kow** 0,52 (OECD107)

· **12.4 Mobility in soil**

The product is water-soluble.

Highly mobile in soils.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

It is assumed that DBNPA has endocrine disrupting properties that are relevant for non-target organisms in the environment.

· **12.7 Other adverse effects**

· **Remark:** Toxic for fish

· **Additional ecological information:**

· **COD-value:** 900 mg/g

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

16 03 05*	organic wastes containing hazardous substances
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP6	Acute Toxicity
HP13	Sensitising
HP14	Ecotoxic

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN3265

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· **14.2 UN proper shipping name**

· **ADR**

3265 CORROSIVE LIQUID, ACIDIC, ORGANIC,  
N.O.S. (2,2-dibromo-2-cyanoacetamide),  
ENVIRONMENTALLY HAZARDOUS

· **IMDG**

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(2,2-dibromo-2-cyanoacetamide), MARINE  
POLLUTANT

· **IATA**

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(2,2-dibromo-2-cyanoacetamide)

· **14.3 Transport hazard class(es)**

· **ADR, IMDG**· **Class**

8 Corrosive substances.

· **Label**

8

· **IATA**· **Class**

8 Corrosive substances.

· **Label**

8

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**

· **Marine pollutant:**

No

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Corrosive substances.

· **Hazard identification number (Kemler code):**

80

· **EMS Number:**

F-A,S-B

· **Segregation groups**

(SGG1) Acids

· **Stowage Category**

B

· **Stowage Code**

SW2 Clear of living quarters.

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**

· **ADR**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **Transport category**

3

· **Tunnel restriction code**

E

· **IMDG**· **Limited quantities (LQ)**

5L

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· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC,  
N.O.S. (2,2-DIBROMO-2-CYANOACETAMIDE), 8, III,  
ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information**

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**

GHS05

GHS07

GHS08

GHS09

· **Signal word** Danger· **Hazard-determining components of labelling:**

2,2-dibromo-2-cyanoacetamide

· **Hazard statements**

H290 May be corrosive to metals.

H302+H332 Harmful if swallowed or if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H372 Causes damage to the respiratory tract through prolonged or repeated exposure. Route of exposure: Inhalation.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P406 Store in a corrosion resistant container / container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.· **Seveso category** E2 Hazardous to the Aquatic Environment· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 75· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

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**Sicherheitsdatenblatt**  
gemäß 1907/2006/EG, Artikel 31

Printing date 07.04.2025

Version number 7 (replaces version 6)

Revision: 07.04.2025

**Trade name: BWT CW-BIO D 3**

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· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations:**

· **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· **Breakdown regulations:**

Critical quantity values according to the regulations on accidents should be adhered to.

· **Technical instructions (air):**

Class	Share in %
Wasser	50-100
I	10-25

· **Waterhazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Relevant phrases**

H301 Toxic if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Date of previous version:** 08.02.2024

· **Version number of previous version:** 6

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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*vPvB: very Persistent and very Bioaccumulative**ATE: Acute toxicity estimate values**Met. Corr. 1: Corrosive to metals – Category 1**Acute Tox. 3: Acute toxicity – Category 3**Acute Tox. 4: Acute toxicity – Category 4**Acute Tox. 2: Acute toxicity – Category 2**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Skin Sens. 1: Skin sensitisation – Category 1**STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2***\* Data compared to the previous version altered.**

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