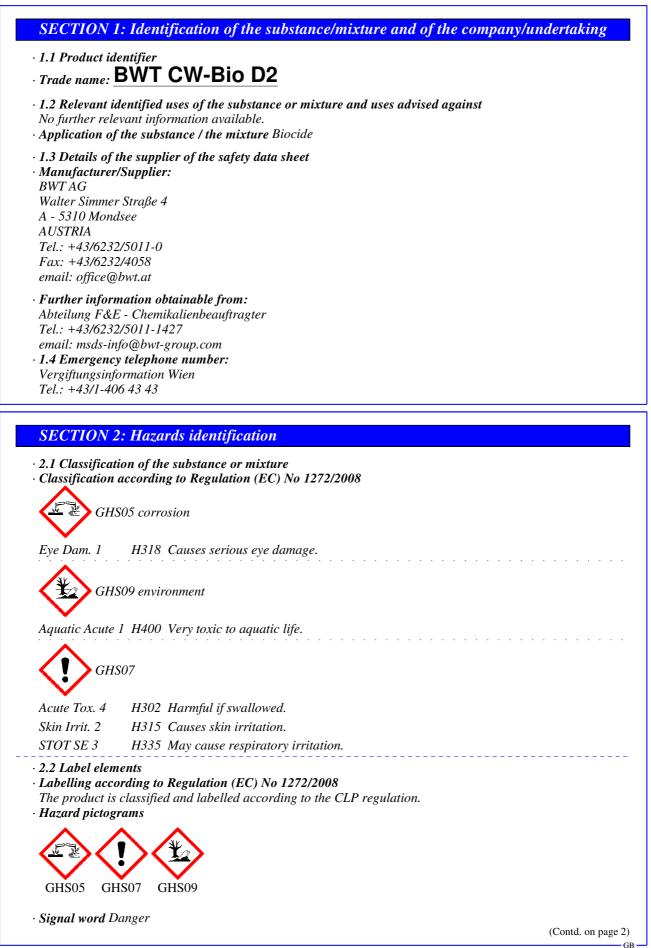


Printing date 15.01.2018

Version number 1

Revision: 15.01.2018





Printing date 15.01.2018

Version number 1

Revision: 15.01.2018

# Trade name: BWT CW-Bio D2

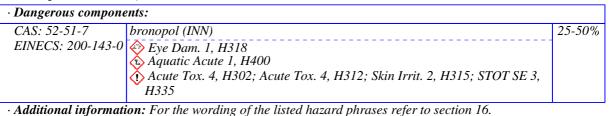
	(Contd. of page 1)
Hazard-determi	ning components of labelling:
bronopol (INN)	
Hazard statemen	nts
H302 Harmful if	f swallowed.
H315 Causes ski	n irritation.
H318 Causes ser	rious eye damage.
	e respiratory irritation.
H400 Very toxic	
Precautionary st	1 0
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: Wash with plenty of water.
	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
2.3 Other hazard	ů – Elektrik
	and vPvB assessment
<b>PBT:</b> Not applic	

• **vPvB**: Not applicable.

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.



# **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; consult doctor in case of complaints.
- · After skin contact:
- If skin irritation continues, consult a doctor.
- Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
- Rinse out mouth and then drink plenty of water.
- Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

(Contd. on page 3)

GB



Printing date 15.01.2018

Version number 1

Revision: 15.01.2018

# Trade name: BWT CW-Bio D2

(Contd. of page 2)

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Water spray Fire-extinguishing powder Foam Carbon dioxide
- 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO) Nitrogen oxides (NOx) Bromine compounds like HBr, Br2
   5.3 Advice for fireficient or
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- 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 Wear protective clothing.
- · 6.2 Environmental precautions:
- Prevent from spreading (e.g. by damming-in or oil barriers). Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
   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
- Ensure good ventilation/exhaustion at the workplace. Only handle and refill product in closed systems. Open and handle receptacle with care. Avoid splashes or spray in enclosed areas.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed. Protect from frost.
- Storage class: 8B
- 7.3 Specific end use(s) No further relevant information available.

(Contd. on page 4)



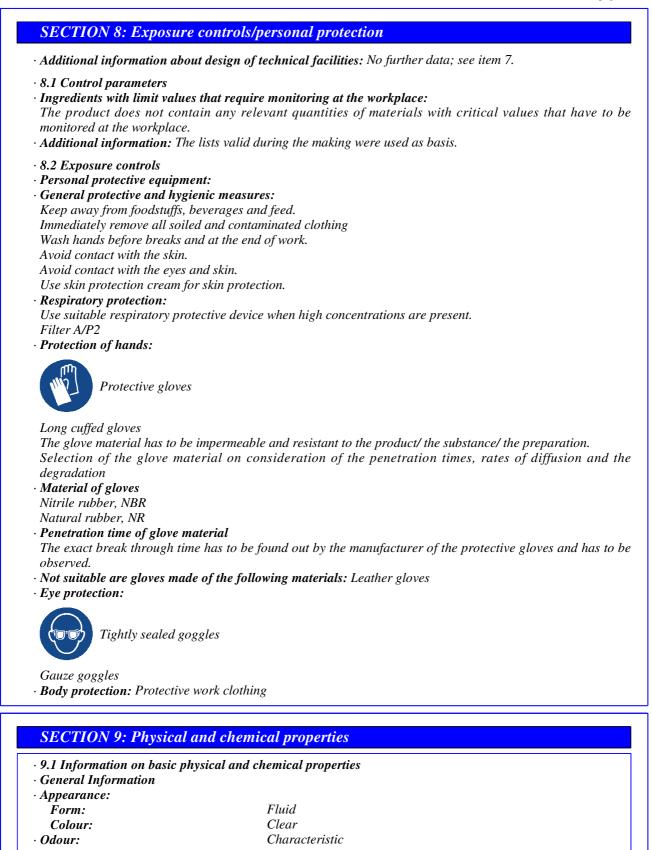
Version number 1

Revision: 15.01.2018

Trade name: **BWT CW-Bio D2** 

Printing date 15.01.2018

(Contd. of page 3)



3

· pH-value at 20 °C:

(Contd. on page 5)

GB



Printing date 15.01.2018

Version number 1

Revision: 15.01.2018

# Trade name: BWT CW-Bio D2

		(Contd. of page
Change in condition Melting point/freezing point: Initial boiling point and boiling range:	Undetermined. 130 °C	
Flash point:	122 °C	
Ignition temperature:	371 °C	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	2.6 Vol % 12.6 Vol %	
Vapour pressure at 20 °C:	23 hPa	
Density at 20 °C:	1.2 g/cm <sup>3</sup>	
Solubility in / Miscibility with water:	Fully miscible.	
Solvent content: VOC (EC) 9.2 Other information	0.00 % No further relevant information available.	

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- Acute toxicity
- Harmful if swallowed.

## · LD/LC50 values relevant for classification:

52-51-7 bronopol (INN)				
Oral	LD50	305 mg/kg (rat)		
Dermal	LD50	> 2000 mg/kg (rat)		
Inhalative	LC50/4 h	305 mg/kg (rat) > 2000 mg/kg (rat) > 0.12 mg/l (rat)		

- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- $\cdot$  Serious eye damage/irritation
- Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Subacute to chronic toxicity:
- Not teratogenic (OECD 414 / EPA 83-3 a).
- Not mutagenic in the Ames-test (OECD 471: In vitro genmutation study in bacteria). Not carcinogenic.

(Contd. on page 6)

GB

Printing date 15.01.2018

Revision: 15.01.2018

> 150 mg/l (Bakterien)

Trade name: BWT CW-Bio D2

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- 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
- May cause respiratory irritation.
- 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

#### • Aquatic toxicity:

EC50 4.6 mg/kg (daphnia)

EC50 / 72 1.3-9.3 mg/l (algae)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential
- Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected. log Pow 0,18; bronopol
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Behaviour in sewage processing plants:
- Type of test Effective concentration Method Assessment EC50
- · Additional ecological information:
- · General notes:
- AOX (DIN 38409 H 14): 1,8%
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

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

- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## **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.
- · Uncleaned packaging:
- · Recommendation:
- Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. · Recommended cleansing agents: Water, if necessary together with cleansing agents.

## **SECTION 14: Transport information**

· 14.1 UN-Number · ADR, IMDG, IATA

UN3265

(Contd. on page 7)

GR



Version number 1

(Contd. of page 5)



Printing date 15.01.2018

Version number 1

Revision: 15.01.2018

ade name: BWT CW-Bio D2		
	(Contd. of page 6	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG, IATA</li> </ul>	3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S (2 - B R O M O - 2 - N I T R O P R O P A N E - 1 , 3 - D I O L ) ENVIRONMENTALLY HAZARDOUS CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2- BROMO-2-NITROPROPANE-1,3-DIOL)	
· 14.3 Transport hazard class(es)		
· ADR		
· Class	8 Corrosive substances.	
· Label	8	
· Class · Label	8 Corrosive substances. 8	
· 14.4 Packing group · ADR, IMDG, IATA	III	
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	No Symbol (fish and tree)	
<ul> <li>14.6 Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> </ul>	Warning: Corrosive substances. 80 F-A,S-B	
· 14.7 Transport in bulk according to Anne Marpol and the IBC Code	ex II of Not applicable.	
· Transport/Additional information:		
· ADR · Limited quantities (LQ) · Transport category · Tunnel restriction code	5L 3 E	
· UN "Model Regulation":	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S., 8, III	

#### \*

# **SECTION 15: Regulatory information**

 $\cdot$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E1 Hazardous to the Aquatic Environment
- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

(Contd. on page 8)

GB



Version number 1

Revision: 15.01.2018

# Trade name: BWT CW-Bio D2

Printing date 15.01.2018

(Contd. of page 7) · 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. · Relevant phrases H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. · Abbreviations and acronyms: ADR: Accord européen sur le transport 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 vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1  $\cdot$  \* Data compared to the previous version altered.