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Version: 12.0  
Effective date: 11/02/2021  
Previous Date: 08/10/2020

## SAFETY DATA SHEET

# SPECTRUS NX1100 (Bioltrol NX 18)

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

#### 1.1. Product identifier

Trade name or designation of the mixture      SPECTRUS NX1100 (Bioltrol NX 18)

Version number      12.0

Revision date      11/02/2021

Supersedes date      08/10/2020

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

Identified uses      Biocide

Uses advised against      None known.

#### 1.3. Details of the supplier of the safety data sheet

JV Process and Water Chemicals LLC

Address: Street V. Kadirov 10, Chirchik city,  
Tashkent Region, Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

Email address: info@pwch.uz

www.pwch.uz

#### 1.4. Emergency telephone number

Multilingual emergency number (24/7)

Street V. Kadirov 10, Chirchik city,  
Tashkent Region,  
Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Corrosive to metals      Category 1      H290 - May be corrosive to metals.

##### Health hazards

Acute toxicity, oral      Category 4      H302 - Harmful if swallowed.

Acute toxicity, inhalation      Category 4      H332 - Harmful if inhaled.

Skin corrosion/irritation      Category 1C      H314 - Causes severe skin burns and eye damage.

Serious eye damage/eye irritation      Category 1      H318 - Causes serious eye damage.

Skin sensitisation      Category 1A      H317 - May cause an allergic skin reaction.



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### Environmental hazards

Hazardous to the aquatic environment, acute aquatic hazard Category 1 H400 - Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term aquatic hazard Category 1 H410 - Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (CAS 55965-84-9) (28,5 g/l)  
2-Bromo-2-nitropropane-1,3-diol (Bronopol) (CAS 52-51-7) (58,7 g/l)

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention

P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

##### Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.  
P310 Immediately call a POISON CENTRE/doctor.

##### Storage

Not available.

##### Disposal

Not available.

**Supplemental label information** EUH071 - Corrosive to the respiratory tract.

### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### Mixtures

#### Chemical description

Blend of biocidal agents

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
2-Bromo-2-nitropropane-1,3-diol (Bronopol)	5 - < 10	52-51-7 200-143-0	-	603-085-00-8	

**Classification:** Acute Tox. 3;H301, Acute Tox. 4;H312, Skin Irrit. 2;H315, Eye Dam. 1;H318, Acute Tox. 3;H331, STOT SE 3;H335, Aquatic Acute 1;H400(M=10), Aquatic Chronic 2;H411



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Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	1 - < 3	55965-84-9 -	-	613-167-00-5	
<b>Classification:</b>	Acute Tox. 3;H301, Acute Tox. 2;H310, Skin Corr. 1C;H314, Skin Sens. 1A;H317, Eye Dam. 1;H318, Acute Tox. 2;H330, Aquatic Acute 1;H400(M=100), Aquatic Chronic 1;H410(M=100)				B

The classification of the above substance(s) is given, including the hazard class, category code and hazard statements which are assigned in accordance with their physicochemical, health and environmental hazards. Please refer to section 16 where the full text of each relevant H-statement is listed.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of loss of consciousness, give artificial respiration. Get medical attention immediately.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Keep eyelids apart. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Do not give anything to eat or drink. Call a physician or poison control centre immediately.

**4.2. Most important symptoms and effects, both acute and delayed** Corrosive effects.  
May cause allergic skin reaction.

**4.3. Indication of any immediate medical attention and special treatment needed** Not available.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray or regular foam.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** Hydrogen bromide, bromine gas, hydrogen chloride, chlorine gas, oxides of carbon and nitrogen evolved in fire.

#### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Self contained breathing apparatus. (CEN : EN 137) Protective clothing (CEN : EN 469) Protective gloves (CEN : EN 659) Helmet (CEN : EN 443)
<b>Special fire fighting procedures</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Prevent spillage and fire-fighting water from entering in public sewers or the immediate environment.



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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Avoid inhalation of vapours and spray mists.  
Wear protective clothing, gloves and safety goggles.  
It is possible to pass or work near the treated system during product application.

**For emergency responders** Use personal protection recommended in Section 8 of the SDS.

#### 6.2. Environmental precautions

Prevent from entering sewers or the immediate environment.  
Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.  
Transport and store in approved containers according to applicable national and international regulations.

#### 6.3. Methods and material for containment and cleaning up

Keep spills and clean-up residuals out of municipal sewers and open bodies of water.  
Absorb the spill with spill pillows or inert solids such as clay or vermiculite.  
Transfer contaminated materials to suitable containers for disposal.  
Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water.  
Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient.  
Let stand for 30 minutes.  
The biocidal effect of this product will be deactivated by this procedure.  
Flush the spill area with copious amounts of water to chemical sewer in accordance with local procedures, permits and regulations.  
DO NOT add deactivation solution to the waste pail to deactivate the adsorbed material.  
Please refer also to section no. 8 'Exposure controls' for further information.

#### 6.4. Reference to other sections

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
Contains an oxidiser.  
Avoid all contact with reducing agents, oils, greases, organics and acids.  
Do not create an aerosol.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store containers closed when not in use, away from extreme temperatures.  
Store at temperatures below 35°C  
Use approved containers only.  
Store in corrosive resistant container with a resistant inner liner.  
Protect from freezing. If frozen, thaw completely and mix thoroughly prior to use.

#### 7.3. Specific end use(s)

Only for industrial users  
The material which has been in contact with this product can be cleaned with water. Product is typically used on an intermittent basis to control microbiological growth. It may be used in a programme which includes oxidizing biocides and other treatment chemicals. The biocide is dosed via injection into the water basin of the cooling tower. Typical shot dosage from 20 to 80 ppm. Interval between applications between 1 day(s) and 2 week(s). The minimum contact time is: 6 hours. Proper treatment levels and ways of addition depend on many factors such as microbial contamination, conditions particular for a given installation, and system operating characteristics. The product should be used in accordance with control procedures that SUEZ Water Technologies & Solutions establishes for a specific application.

**Shelf life** 360 days

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Occupational exposure limits** No exposure limits noted for ingredient(s).  
**Biological limit values** No biological exposure limits noted for the ingredient(s).  
**Recommended monitoring procedures** Not available.  
**Derived no effect levels (DNELs)** Not available.  
**Predicted no effect concentrations (PNECs)** Not available.



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### 8.2. Exposure controls

<b>Appropriate engineering controls</b>	Adequate ventilation to maintain air contaminants below exposure limits. Eye wash facilities and emergency shower must be available when handling this product.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Splash proof chemical goggles. Face shield. CEN : EN 166
<b>Skin protection</b>	
<b>- Hand protection</b>	Full shoulder length butyl gloves (Protection against unintentional short-term contact) Full shoulder length neoprene gloves (Protection against unintentional short-term contact) Full shoulder length nitrile gloves (Protection against unintentional short-term contact) Penetration time: > 480 min Coating thickness: 0,5 mm CEN : EN 374-1/2/3/4; EN 420
<b>- Other</b>	Chemical resistant clothing that ensures full coverage of the hands, arms and body. Chemical resistant apron. CEN : EN ISO 13688; EN ISO 6530; EN ISO 6529; EN 464
<b>Respiratory protection</b>	In case of insufficient ventilation, use a breathing mask with filter type: A2 E2-P2 CEN : EN 140; EN 14387
<b>Thermal hazards</b>	Not available.
<b>Environmental exposure controls</b>	Prevent from entering in public sewers or the immediate environment. Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	
<b>Colour</b>	Colorless to yellow green
<b>Physical state</b>	Liquid
<b>Odour</b>	None
<b>Odour threshold</b>	Not available.
<b>pH (concentrated product)</b>	3
<b>pH in aqueous solution</b>	3,7 (5% SOL.)
<b>Melting point/freezing point</b>	-4 °C
<b>Initial boiling point and boiling range</b>	104 °C
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	< 1 (Ether = 1)
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	18 mm Hg
<b>Vapour pressure temp.</b>	21 °C
<b>Vapour density</b>	< 1 (Air = 1)
<b>Relative density</b>	1,11
<b>Relative density temperature</b>	21 °C
<b>Solubility</b>	
<b>Solubility (water)</b>	100 %
<b>Partition coefficient (n-octanol/water)</b>	Not available.



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<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	10 cps
<b>Viscosity temperature</b>	21 °C
<b>Explosive properties</b>	Not available.
<b>Oxidising properties</b>	Not available.
<b>9.2. Other information</b>	
<b>Pour point</b>	-2 °C
<b>Shelf life</b>	360 days
<b>VOC</b>	0 %

### SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Not available.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	Not applicable.
<b>10.4. Conditions to avoid</b>	Protect from freezing.
<b>10.5. Incompatible materials</b>	Avoid contact with strong oxidisers. Avoid all contact with reducing agents, oils, greases, organics and acids.
<b>10.6. Hazardous decomposition products</b>	Hydrogen bromide, bromine gas, hydrogen chloride, chlorine gas, oxides of carbon and nitrogen evolved in fire.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<b>Product</b>	<b>Test Results</b>
SPECTRUS NX1100 (Bioltrol NX 18) (Mixture)	Acute Dermal LD50 Rabbit: > 2000 mg/kg Acute Inhalation LC50 Rat: > 1 mg/l 4 hour Acute Oral LD50 Rat: 1030 mg/kg
<b>Components</b>	<b>Test Results</b>
2-Bromo-2-nitropropane-1,3-diol (Bronopol) (52-51-7)	Acute Dermal LD50 Rat: > 2000 mg/kg Acute Inhalation LC50 Rat: > 0,59 mg/l 4 hour (Aerosol toxicity) Acute Oral LD50 Rat: 193 mg/kg
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	Acute Dermal LD50 Rabbit: 90 mg/kg  Acute Inhalation LC50 Rat: 0,33 mg/l 4 hour Acute Oral LD50 Rat: 67 mg/kg
<b>Acute toxicity</b>	Harmful if swallowed. Harmful if inhaled.
<b>Skin corrosion/irritation</b>	Causes severe skin burns and eye damage.
<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<b>Respiratory or skin sensitisation</b>	May cause an allergic skin reaction.
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.



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

**Information on likely routes of exposure**

- Ingestion** Causes digestive tract burns.  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
- Inhalation** May cause irritation to the respiratory system.
- Skin contact** Causes severe skin burns.  
May cause an allergic skin reaction.
- Eye contact** Causes serious eye damage.

**Symptoms** Not available.

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

**Mixture versus substance information** None known.

**Other information** Not available.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Product		Species	Test Results	
SPECTRUS NX1100 (Bioltrol NX 18) (CAS Mixture)				
<b>Aquatic</b>				
Crustacea	LC50	Ceriodaphnia	4,7 mg/l, Static Renewal Bioassay, 48 hour	
		Daphnia magna	5 mg/l, Static Renewal Bioassay, 48 hour	
		Mysid Shrimp	40,5 mg/l, Static Renewal Bioassay, 48 hour	
	NOEL	Ceriodaphnia	0,63 mg/l, Static Renewal Bioassay, 48 hour	
		Daphnia magna	2,5 mg/l, Static Renewal Bioassay, 48 hour	
		Mysid Shrimp	18 mg/l, Static Renewal Bioassay, 48 hour	
	Fish	LC50	Fathead minnow	3,5 mg/l, Static Renewal Bioassay, 96 hour
			Menidia beryllina (Silversides)	15,9 mg/l, Static Renewal Bioassay, 96 hour
			Rainbow trout	7,2 mg/l, Static Renewal Bioassay, 96 hour
NOEL		Sheepshead minnow	26,7 mg/l, Static Renewal Bioassay, 96 hour	
		Fathead minnow	1,8 mg/l, Static Renewal Bioassay, 96 hour	
		Menidia beryllina (Silversides)	12,5 mg/l, Static Renewal Bioassay, 96 hour	
		Rainbow trout	3,1 mg/l, Static Renewal Bioassay, 96 hour	
		Sheepshead minnow	15,5 mg/l, Static Renewal Bioassay, 96 hour	
<b>Components</b>				
2-Bromo-2-nitropropane-1,3-diol (Bronopol) (CAS 52-51-7)				
	EC50	Daphnia magna	1,4 mg/l, 48 hour	



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## SPECTRUS NX1100 (Bioltrol NX 18)

Components	Species	Test Results
Aquatic Fish	LC50 Rainbow trout	41 mg/l, 96 hour

### 12.2. Persistence and degradability

- COD (mgO<sub>2</sub>/g) 77
- BOD 5 (mgO<sub>2</sub>/g) 2 (calculated data)
- BOD 28 (mgO<sub>2</sub>/g) 4 (calculated data)
- Closed Bottle Test (% Degradation in 28 days) 2 (calculated data)
- Zahn-Wellens Test (% Degradation in 28 days) 8 (calculated data)
- TOC (mg C/g) 29 (calculated data)

### 12.3. Bioaccumulative potential

Not available.

#### Partition coefficient n-octanol/water (log Kow)

- 2-Bromo-2-nitropropane-1,3-diol (Bronopol) -0,64
- Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) 0,49

### Bioconcentration factor (BCF)

Not available.

### 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

### 12.6. Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Contaminated packaging** According to Hazardous Waste Regulations.

EWC ( European Waste Code ) recommendation : 15 01 10  
 15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified.  
 15 01 Packaging (including separately collected municipal packaging waste).  
 15 01 10 Packaging containing residues of or contaminated by dangerous substances.  
 Depending on the origin and state of the waste, other EWC numbers may be applicable too.

**Disposal methods/information** According to Hazardous Waste Regulations.

EWC ( European Waste Code ) recommendation : 16 03 05  
 16 Wastes not otherwise specified in the list.  
 16 03 Off-specification batches and unused products.  
 16 03 05 Organic wastes containing dangerous substances.  
 Depending on the origin and state of the waste, other EWC numbers may be applicable too.

## SECTION 14: Transport information

- ADR**
- 14.1. UN number UN3265
  - 14.2. UN proper shipping name Corrosive liquid, acidic, organic, n.o.s. (Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-Bromo-2-nitropropane-1,3-diol (Bronopol, Mixture)
  - 14.3. Transport hazard class(es)
    - Class 8
    - Subsidiary risk -
    - Tunnel restriction code (E)
  - 14.4. Packing group III
  - 14.5. Environmental hazards Yes
  - 14.6. Special precautions for user Not available.





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### RID

14.1. UN number	UN3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-Bromo-2-nitropropane-1,3-diol (Bronopol, Mixture))
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Not available.

### ADN

14.1. UN number	UN3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-Bromo-2-nitropropane-1,3-diol (Bronopol, Mixture))
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Not available.

### IATA

14.1. UN number	UN3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-Bromo-2-nitropropane-1,3-diol (Bronopol, Mixture))
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	Yes
ERG Code	Not available.
14.6. Special precautions for user	Not available.

### IMDG

14.1. UN number	UN3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-Bromo-2-nitropropane-1,3-diol (Bronopol, Mixture))
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-B
14.6. Special precautions for user	Not available.
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	This substance/mixture is not intended to be transported in bulk.



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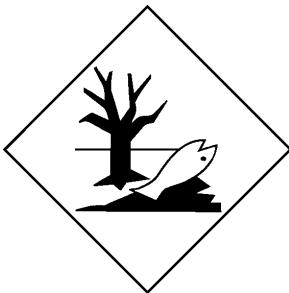
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## SPECTRUS NX1100 (Bioltrol NX 18)

ADN; ADR; IATA; IMDG; RID



Marine pollutant



### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

##### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

##### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

##### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

2-Bromo-2-nitropropane-1,3-diol (Bronopol) (CAS 52-51-7)

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (CAS 55965-84-9)



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<b>National regulations</b>	Not available.
<b>15.2. Chemical safety assessment</b>	Not available.
<b>NSF Registered and/or meets USDA (according to 1998 guidelines):</b>	Registration No. – 141064 Category Code(s): G5 Cooling and retort water treatment products G7 Boiler, steam line treatment products – nonfood contact
<b>Biocides</b>	11: Preservatives for liquid-cooling and processing systems Bactericide Fungicide

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## SECTION 16: Other information

### List of abbreviations

COD: Chemical Oxygen Demand  
 EC-No: European Commission Number  
 IATA: International Air Transport Association  
 IMDG Code: International Maritime Dangerous Goods Code.  
 CAS: Chemical Abstract Service.  
 CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.  
 CEN: European Committee for Standardization (Comité Européen de Normalisation).  
 TWA: Time Weighted Average.  
 STEL: Short-term Exposure Limit.  
 LD50: Lethal Dose 50%.  
 LC50: Lethal Concentration 50%.  
 EC50: Effective Concentration 50%.  
 NOEL: No observed effect level.  
 BOD: Biochemical oxygen demand.  
 TOC: Total Organic Carbon.  
 ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route).  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures).  
 RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).  
 Safety data sheets of raw materials.

### References

#### Information on evaluation method leading to the classification of mixture

The physical, health and environmental hazards of this mixture are assessed by applying the classification criteria for each hazard class or differentiation in Parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008 (CLP).

#### Full text of any H-statements not written out in full under Sections 2 to 15

H301 Toxic if swallowed.  
 H310 Fatal in contact with skin.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H330 Fatal if inhaled.  
 H331 Toxic if inhaled.  
 H335 May cause respiratory irritation.  
 H400 Very toxic to aquatic life.



P&WC

Version: 12.0  
Effective date: 11/02/2021  
Previous Date: 08/10/2020

# SAFETY DATA SHEET

## SPECTRUS NX1100 (Bioltrol NX 18)

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	H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
<b>Revision information</b>	SECTION 2: Hazards identification: Supplemental label information SECTION 3: Composition/information on ingredients: Composition comments SECTION 7: Handling and storage: 7,3. Specific end use(s) SECTION 8: Exposure controls/personal protection: Eye/face protection SECTION 8: Exposure controls/personal protection: Respiratory protection Physical & Chemical Properties: Multiple Properties SECTION 16: Other information: Further information GHS: Classification
<b>Training information</b>	Provide training on safe handling while considering the type of application and exposure scenarios.
<b>Based on EC Directive / Regulations</b>	(EU) No 1357/2014 (EC) No 1907/2006 (REACH) (EU) 2015/830 (EC) No 1272/2008 (EU) No. 528/2012 and amendments (Biocidal Product Regulation) All active ingredients have been identified/notified for the relevant Product Types according to the First Review Regulation on existing active substances (EU) No. 1451/2007
<b>Further information</b>	Correction in Section: 2