

Version: 2

Date of preparation : 15 April 2024 Previous date : 12 February 2023

# SAFETY DATA SHEET

### **SPECTRUS OX1201**

#### 1. Identification

Product identifier SPECTRUS OX1201

Other means of identification None.

Recommended use of the chemical and restrictions on use

**Recommended use** Water-based microbial control agent.

Restrictions on use Not available.

#### Company/undertaking identification

**VEOLIA WATER TECHNOLOGIES & SOLUTIONS** 

**AUSTRALIA PTY LTD** 

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Street, Auckland, 1010, New Zealand

Tel: 1800 064 140 (AUS) 0800 945635 (NZ)

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### **Emergency telephone**

+61-290372994 (Aust) +64-98010034 (NZ)

### 2. Hazard(s) identification

### Classification of the hazardous chemical

Physical hazards Not classified.

Health hazards Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 2

exposure

**Environmental hazards** Not classified.

### Label elements, including precautionary statements

Hazard symbol(s)



Health hazard

Exclamation mark

Signal word Warning

Hazard statement(s) May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May

cause damage to organs through prolonged or repeated exposure. The mixture does not meet the

criteria for classification.

Precautionary statement(s)

Response

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist/vapors. Use only outdoors or in a well-ventilated area. Use

personal protective equipment as required. Observe good industrial hygiene practices.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Wash hands after handling.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store away from

incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements. Dispose of

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

Supplemental information None.

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Product: SPECTRUS OX1201 - Page 1 of 8



Date of preparation: 15 April 2024 Previous date: 12 February 2023

# SAFETY DATA SHEET

### SPECTRUS OX1201

Other hazards which do not result in classification

None known.

### 3. Composition/information on ingredients

**Mixtures** 

Identity of chemical ingredients CAS number and other Concentration of unique identifiers ingredients Sodium bromide 30-<60 7647-15-6

#### 4. First-aid measures

#### Description of necessary first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

center or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Personal protection for first-aid

responders

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in

attendance.

Symptoms caused by exposure May cause drowsiness or dizziness. Headache. Nausea, vomiting. Direct contact with eyes may

cause temporary irritation. Prolonged exposure may cause chronic effects.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

#### 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire

fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Hazchem code

Move containers from fire area if you can do so without risk.

equipment/instructions

General fire hazards No unusual fire or explosion hazards noted.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

### 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

None

For non-emergency

personnel

Do not breathe mist/vapors. Wear appropriate personal protective equipment.

Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapors. For emergency responders

Local authorities should be advised if significant spillages cannot be contained. For personal

protection, see section 8 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

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Product: SPECTRUS OX1201 - Page 2 of 8

Date of preparation : 15 April 2024 Previous date : 12 February 2023



# SAFETY DATA SHEET

### **SPECTRUS OX1201**

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

sectory, naon area mur mater.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

**Precautions for safe handling** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist/vapors. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see

Section 10 of the SDS).

8. Exposure controls and personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits No exposure limits noted for ingredient(s).

**Biological limit values**No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** No exposure standards allocated.

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level.

Individual protection measures, for example personal protective equipment (PPE)

**Eye/face protection** Not available.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing. Use of an impervious apron is recommended.

**Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Observe any medical surveillance requirements. Always observe good personal hygiene

measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Liquid

Physical state Liquid.
Form Liquid.
Color Colorless
Odor Slight

Odor threshold

pH (concentrated product)

Not available.

7.5 Neat

Very series of the concentrated product of th

range

Flash point Not Applicable
Evaporation rate Slower than Ether
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

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Product: SPECTRUS OX1201 - Page 3 of 8



Date of preparation: 15 April 2024 Previous date: 12 February 2023



# SAFETY DATA SHEET

### SPECTRUS OX1201

18 mmHg Vapor pressure 21 °C Vapor pressure temp. < 1 Vapor density 1.42 Relative density 21 °C Relative density temperature

Solubility(ies)

Solubility (water) 100 %

Not available. Partition coefficient

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** 6 mPa.s **Viscosity** 21 °C Viscosity temperature

Other physical and chemical parameters

Not explosive. **Explosive properties Oxidizing properties** Not oxidizing. pH in aqueous solution 8 (5% Solution)

Pour point < -34 °C

VOC 0 % ESTIMATED

### 10. Stability and reactivity

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

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

#### 11. Toxicological information

### Information on possible routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting.

Skin contact No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Eye contact

Expected to be a low ingestion hazard. Ingestion

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Direct contact with eyes may Symptoms related to exposure

cause temporary irritation.

**Acute toxicity** 

Product	Species Test Results	
SPECTRUS OX1201		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg (Calculated according to GHS additivity formula)

Inhalation

LC50 Rat > 5 mg/l, 4 hours (Calculated according to

GHS additivity formula)

Oral

LD50 Rat > 5000 mg/kg (Calculated according to

GHS additivity formula)

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Product: SPECTRUS OX1201 - Page 4 of 8



Date of preparation: 15 April 2024 Previous date: 12 February 2023

# **SAFETY DATA SHEET**

Components	Species	;	Test Results			
Sodium bromide (CAS 7647-15-	<u> </u>					
<u>Acute</u>						
Dermal						
LD50	Rabbit		> 2000 mg/kg			
Oral						
LD50	Rat	t 4200 mg/kg				
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.					
Serious eye damage/irritation	Direct con	Direct contact with eyes may cause temporary irritation.				
Respiratory or skin sensitization						
Respiratory sensitization	Not a respiratory sensitizer.					
Skin sensitization	•	This product is not expected to cause skin sensitization.				
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.					
Carcinogenicity	Not available.					
Reproductive toxicity		Suspected of damaging fertility or the unborn child. This product is not expected to cause reproductive or developmental effects.				
Specific target organ toxicity - single exposure	May cause	May cause drowsiness or dizziness.				
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.					
Aspiration hazard	Not an aspiration hazard.					
Chronic effects	May cause	May cause damage to organs through prolonged or repeated exposure.				
12. Ecological information	n					
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment					
Product		Species	Test Results			
Aquatic						
Crustacea	LC50	Daphnia magna	27500 mg/L, 48 hour (Product as is)			
			0.71 mg/L, 48 hour (As Bromine)			
		Mysid Shrimp	0.17 mg/L, 96 hour (As Bromine)			
	NOEL	Daphnia magna	0.41 mg/L, 48 hour (As Bromine)			
Fish	LC50	Bluegill Sunfish	> 1000 mg/L, 96 hour (Product as is)			
			0.52 mg/L, 96 hour (As Bromine)			
		Fathead Minnow	> 10000 mg/L, 96 hour (Product as is)			
		Rainbow Trout	> 1000 mg/L, 96 hour (Product as is)			

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** 

No data available.

Mobility in soil No data available for this product.

**NOEL** 

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

Sheepshead Minnow

Sheepshead Minnow

Bluegill Sunfish

potential, endocrine disruption, global warming potential) are expected from this component.

Product: SPECTRUS OX1201 - Page 5 of 8

0.19 mg/L, 96 hour (As Bromine)

0.3 mg/L, 96 hour (As Bromine)

0.11 mg/L, 96 hour (As Bromine)



Date of preparation : 15 April 2024 Previous date : 12 February 2023



# SAFETY DATA SHEET

### SPECTRUS OX1201

### 13. Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

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

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

**ADG** 

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

### 15. Regulatory information

### Safety, health and environmental regulations

National regulations This Safety

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the

preparation of Safety Data Sheets for Hazardous Chemicals.

Group Standard - Water treatment chemicals - Subsidiary hazard HSR002684

### Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

### Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

### Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated.

### Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated.

## Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

### Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

# Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

### Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

### Australia Medicines & Poisons Schedule 10

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

### Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 4

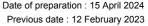
Sodium bromide (CAS 7647-15-6)

### Australia Medicines & Poisons Schedule 5

Sodium bromide (CAS 7647-15-6)

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Product: SPECTRUS OX1201 - Page 6 of 8





# SAFETY DATA SHEET

### **SPECTRUS OX1201**

#### Australia Medicines & Poisons Schedule 6

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

### **High Volume Industrial Chemicals (HVIC)**

Not listed.

### Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)

Not listed.

#### National Pollutant Inventory (NPI) substance reporting list

Not listed.

#### **Prohibited Carcinogenic Substances**

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

### **Restricted Carcinogenic Substances**

Not regulated.

#### International regulations

### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

### **Kyoto protocol**

Not applicable.

### **Montreal Protocol**

Not applicable.

### **Basel Convention**

Not applicable.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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Product: SPECTRUS OX1201 - Page 7 of 8

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).



Date of preparation : 15 April 2024 Previous date : 12 February 2023

# **SAFETY DATA SHEET**

### **SPECTRUS OX1201**

NSF Registered and/or meets USDA (according to 1998

guidelines):

Registration No. – 141071

Category Code(s):

G5 Cooling and retort water treatment products

G7 Boiler, steam line treatment products – nonfood contact

16. Other information

Issue date 01-February-2021
Revision date 15/04/2024

Key abbreviations or acronyms

used

AICIS: Australian Inventory of Industrial Chemicals.

References: No data available

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

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