

SPECTRUS NX1100

1. Identification **Product identifier**

SPECTRUS NX1100

Other means of identification None.

Recommended use of the chemical and restrictions on use Recommended use **Restrictions on use**

Biocide Not available.

Company/undertaking identification

VEOLIA WATER TECHNOLOGIES & SOLUTIONS AUSTRALIA PTY LTD 103 Raubers Road, Northgate, QLD 4013 Australia C/o Buddle Findlay, Level 18, Hsbc Tower, 188 Quay Street, Auckland, 1010, New Zealand Tel: 1800 064 140 (AUS) 0800 945635 (NZ) Email: vtc.vwts.apacproductregulatory.all@veolia.com

Emergency telephone

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

2. Hazard(s) identification

Hazard symbol(s)

Classification of the hazardous	chemical	
Physical hazards	Corrosive to metals	Category 1
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1A
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1

Label elements, including precautionary statements



Danger Signal word

May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage. Hazard statement(s) May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

Keep only in original container. Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.



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Response	Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.	
Storage	Store locked up. Store in corrosive resistant container with a resistant inner liner.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Supplemental information	None.	
Other hazards which do not result in classification	None known.	

3. Composition/information on ingredients

Mixtures

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
2-Bromo-2-nitropropane-1,3-diol (Bronopol)	52-51-7	5- <10
Magnesium nitrate	10377-60-3	1- <5
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	55965-84-9	1- <5

4. First-aid measures

Description of necessary first aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.
Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
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. Wash contaminated clothing before reuse.
Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. 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 media	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 equipment/instructions	Move containers from fire area if you can do so without risk.



None.

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Hazchem code	
Specific methods	

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

6. Accidental release measures

o. Accidental release measures			
Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.		
For emergency responders	Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.		
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.		
Methods and materials for	Prevent entry into waterways, sewer, basements or confined areas.		
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 spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.		
	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	Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.		
Conditions for safe storage, including any incompatibilities	Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. Store in a well-ventilated place. 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).		
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. Eye wash facilities and emergency shower must be available when handling this product.		
Individual protection measures, for example personal protective equipment (PPE)			
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield. Face shield is recommended.		
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves.		

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Keep away from food and drink. Always observe good personal hygiene measures, such as **Hygiene measures** washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Other



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9. Physical and chemical properties

5. I hysical and chemical p	nopenties
Appearance	Liquid
Physical state	Liquid.
Form	Liquid.
Color	Colorless to yellow green
Odor	Odorless
Odor threshold	Not available.
pH (concentrated product)	3 Neat
Melting point/freezing point	-4 °C
Initial boiling point and boiling range	104 °C
Flash point	Not Applicable
Evaporation rate	Slower than Ether
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	18 mmHg
Vapor pressure temp.	21 °C
Vapor density	< 1
Relative density	1.11
Relative density temperature	21 °C
Solubility(ies)	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	4 mPa.s
Viscosity temperature	21 °C
Other physical and chemical par	rameters
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
pH in aqueous solution	3.7 (5% Solution)
Pour point	-2 °C
VOC	0 %
10. Stability and reactivity	
Reactivity	May be corrosive to metals.
Chemical stability	Material is stable under normal conditions.
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. Metals.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on possible routes of exposure

Inhalation Harmful if inhaled.



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Skin contact	Causes severe skin burns. May cause an allergic	skin reaction.
Eye contact	Causes serious eye damage.	
Ingestion	Causes digestive tract burns. Harmful if swallowed.	
Symptoms related to exposure	 Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Harmful if inhaled. Harmful if swallowed. 	
Acute toxicity		
Product	Species	Test Results
SPECTRUS NX1100		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 1 mg/l, 4 Hour
Oral		
LD50	Rat	1030 mg/kg
Components	Species	Test Results
2-Bromo-2-nitropropane-1,3-diol (E	Bronopol) (CAS 52-51-7)	
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
LC50	Rat	> 0.59 mg/l, 4 Hour (Aerosol toxicity)
Oral		
LD50	Rat	193 mg/kg
Magnesium nitrate (CAS 10377-60)-3)	
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	5400 mg/kg
Mixture of: 5-chloro-2-methyl-4-iso 55965-84-9)	thiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-	isothiazolin-3-one [EC no. 220-239-6] (3:1) (CA
<u>Acute</u>		
Dermal		00
LD50	Rabbit	90 mg/kg
Inhalation	D.1	
LC50	Rat	0.33 mg/l, 4 Hour
Oral	D.1	
LD50	Rat	67 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Serious eye damage/irritation	Causes serious eye damage.	
Respiratory or skin sensitizatior		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin reaction.	
• · · · · ·	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Germ cell mutagenicity Carcinogenicity		



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Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

LC50 NOEL LC50	Species Ceriodaphnia Daphnia magna Mysid Shrimp Ceriodaphnia Daphnia magna Mysid Shrimp Fathead Minnow	Test Results 4.7 mg/l, 48 hour 5 mg/l, 48 hour 40.5 mg/l, 48 hour 0.63 mg/l, 48 hour 2.5 mg/l, 48 hour 18 mg/l, 48 hour	
NOEL	Daphnia magna Mysid Shrimp Ceriodaphnia Daphnia magna Mysid Shrimp	5 mg/l, 48 hour 40.5 mg/l, 48 hour 0.63 mg/l, 48 hour 2.5 mg/l, 48 hour	
NOEL	Daphnia magna Mysid Shrimp Ceriodaphnia Daphnia magna Mysid Shrimp	5 mg/l, 48 hour 40.5 mg/l, 48 hour 0.63 mg/l, 48 hour 2.5 mg/l, 48 hour	
	Mysid Shrimp Ceriodaphnia Daphnia magna Mysid Shrimp	40.5 mg/l, 48 hour 0.63 mg/l, 48 hour 2.5 mg/l, 48 hour	
	Ceriodaphnia Daphnia magna Mysid Shrimp	0.63 mg/l, 48 hour 2.5 mg/l, 48 hour	
	Daphnia magna Mysid Shrimp	2.5 mg/l, 48 hour	
LC50	Mysid Shrimp	-	
LC50		18 mg/L 48 hour	
LC50	Fathead Minnow		
		3.5 mg/l, 96 hour	
	Menidia beryllina (Silversides)	15.9 mg/l, 96 hour	
	Rainbow Trout	7.2 mg/l, 96 hour	
	Sheepshead Minnow	26.7 mg/l, 96 hour	
NOEL	Fathead Minnow	1.8 mg/l, 96 hour	
	Menidia beryllina (Silversides)	12.5 mg/l, 96 hour	
	Rainbow Trout	3.1 mg/l, 96 hour	
	Sheepshead Minnow	15.5 mg/l, 96 hour	
	Species	Test Results	
EC50	Daphnia Magna	1.4 mg/l, 48 hour	
LC50	Rainbow Trout	41 mg/l, 96 hour	
No data is	available on the degradability of any ingr	edients in the mixture.	
No data is	available on the degradability of any ingr	edients in the mixture.	
77			
2 (calculate	2 (calculated data)		
4 (calculate	4 (calculated data)		
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8 (calculated data)			
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-diol (Bronopol I-4-isothiazolin	-3-one [EC no. 0.49		
No data available for this product.			
	EC50 LC50 No data is No data is 77 2 (calculate 4 (calculate 2 (calculate 8 (calculate 29 (calculate 20 (calculate 29 (calculate 20 (calculate 29 (calculate 20 (calculate	NOEL Fathead Minnow Menidia beryllina (Silversides) Rainbow Trout Sheepshead Minnow Species EC50 Daphnia Magna LC50 Rainbow Trout No data is available on the degradability of any ingr No data is available on the degradability of any ingr No data is available on the degradability of any ingr 77 2 (calculated data) 4 (calculated data) 2 (calculated data) 8 (calculated data) 29 (calculated data) 29 (calculated data) -0.64 I-4-isothiazolin-3-one [EC no. 0.49	



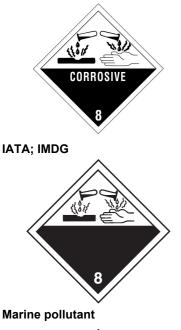
SPECTRUS NX1100

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Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
13. Disposal consideration	S
Disposal methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Residual waste	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	
UN number	3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1); 2-Bromo-2-nitropropane-1,3-diol (Bronopol))
Transport hazard class(es)	
Class	8
Subsidiary risk	
Packing group	
Environmental hazards	Yes
Hazchem code	2X Read asfety instructions, SDS and amarganey presedures before handling
IATA	Read safety instructions, SDS and emergency procedures before handling.
UN number	3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1), 2-Bromo-2-nitropropane-1,3-diol (Bronopol))
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	I
Environmental hazards	Yes
Special precautions for user IMDG	Read safety instructions, SDS and emergency procedures before handling.
UN number	3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2-BROMO-2-NITROPROPANE-1,3-DIOL, 5-Chloro-2-Methyl-4-Isothiazolin-3-One Mixture With 2-Methyl-4-Isothiazolin-3-One), MARINE POLLUTANT
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	I
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.



SPECTRUS NX1100

ADG





General information

National regulations

IMDG Regulated Marine Pollutant.

15. Regulatory information

Safety, health and environmental regulations

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 (Corrosive) - HSR002681

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.

SAFETY DATA SHEET

SPECTRUS NX1100

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Not listed.		
Importation of Ozone De	epleting Substances (Customs(Prohibited imports) Regulations 19	56, Schedule 10, as amended)
Not listed. National Pollutant Inven	tory (NPI) substance reporting list	
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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		
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		
*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).				
NSF Registered and/or meets USDA (according to 1998 guidelines):	Registration No. – 141064 Category Code(s): G5 Cooling and retort water treatment products G7 Boiler, steam line treatment products – nonfood contact			
16. Other information				
Issue date	17-February-2021			
Revision date	17/02/2023			
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	Other information: Disclaimer			

Revision information

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