



# SAFETY DATA SHEET

## SPECTRUS NX1102

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

#### 1.1. Product identifier

Trade name or designation of the mixture      SPECTRUS NX1102

Issue date      15/03/2010

Version number      9.5

Revision date      12/05/2022

Supersedes date      15/03/2021

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

Identified uses      Solvent-based microbial control agent.

Uses advised against      None known.

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

SUEZ Water Technologies & Solutions Ireland Limited

The Gallery

13 Bedford Row

Limerick

V94 VY47

Tel.: 00353 61 541287

e-mail : [emea.productregulatory.wts@suez.com](mailto:emea.productregulatory.wts@suez.com)

#### 1.4. Emergency telephone number

Multilingual emergency number (24/7)

Europe, Middle East, Africa, Israel (Europe and English language speaking countries):

+44(0)1235 239670

Middle East & Africa (speaking Arabic):

+44(0)1235 239671 SUEZWATERTECH29003-NCEC

Official advisory body :

National Poisons Information Centre

Beaumont Hospital

PO Box 1297

Beaumont Road

Dublin 9

Tel: +353 (01) 809 2566

### SECTION 2: Hazards identification

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

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

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

##### Physical hazards

Corrosive to metals	Category 1	H290 - May be corrosive to metals.
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##### Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
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Acute toxicity, inhalation	Category 4	H332 - Harmful if inhaled.
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Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
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Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.

**Hazard summary** May be corrosive to metals. Causes severe skin burns and eye damage. Harmful if inhaled. Harmful if swallowed. May cause an allergic skin reaction.

### 2.2. Label elements

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

**Contains:** 2,2-dibromo-2-cyanoacetamide (DBNPA) (CAS 10222-01-2) (255 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.

#### Precautionary statements

##### Prevention

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

##### Response

- P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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** None.

### 2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### Mixtures

**Chemical description** 2,2-dibromo-2-cyanoacetamide (DBNPA) in organic solvent

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
2,2-dibromo-2-cyanoacetamide (DBNPA)	20 - < 30	10222-01-2 233-539-7	-	-	<b>Classification:</b> Acute Tox. 3;H301;(ATE: 206 mg/kg), Acute Tox. 2;H330;(ATE: 0,32 mg/l), Skin Corr. 1B;H314, Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 3;H412



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### List of abbreviations and symbols that may be used above

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. ATE: Acute toxicity estimate.  
M: M-factor  
PBT: persistent, bioaccumulative and toxic substance.  
vPvB: very persistent and very bioaccumulative substance.  
#: This substance has been assigned Union workplace exposure limit(s).

The full text for all H-statements is displayed in section 16.

### SECTION 4: First aid measures

<b>General information</b>	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.
<b>4.1. Description of first aid measures</b>	
<b>Inhalation</b>	Move to fresh air. Oxygen or artificial respiration if needed. Call a poison centre or doctor/physician if you feel unwell.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control centre immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
<b>Eye contact</b>	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 centre immediately.
<b>Ingestion</b>	Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	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.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	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.

### SECTION 5: Firefighting measures

<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Foam. Powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	Above 120°C bromine, cyanogen bromide and bromoacetonitrile are formed. Oxides of carbon and nitrogen evolved in fire. Hydrogen bromide.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	Move containers from fire area if you can do so without risk. Prevent spillage and fire-fighting water from entering in public sewers or the immediate environment.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

### SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. It is possible to pass or work near the treated system during product application.
<b>For emergency responders</b>	Keep unnecessary personnel away. Avoid breathing mist/vapours. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground. Transport and store in approved containers according to applicable national and international regulations.



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<b>6.3. Methods and material for containment and cleaning up</b>	Prevent entry into waterways, sewer, basements or confined areas. 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.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).  Never return spills to original containers for re-use. Place in waste disposal container. Decontaminate with 10 % sodium bisulfite. Use 10 parts to 1 part product. Flush the spill area with copious amounts of water to chemical sewer in accordance with local procedures, permits and regulations. The biocidal effect of this product will be deactivated by this procedure.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

### SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Acidic. Do not mix with alkaline material. Do not breathe mist/vapours. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store at temperatures below 35°C Minimise exposure to light. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Store locked up. Store in a cool, dry place out of direct sunlight. Keep only in the original container. Store in a well-ventilated place.
<b>7.3. Specific end use(s)</b>	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 minimum contact time is: > 20 minutes for biocide action. The recommended dosage of SPECTRUS NX1102 may range between 20 and 50 mg/l under normal conditions, and between 50 and 500 mg/l (depending on the contamination levels and water pH) for curative treatment. SPECTRUS NX1102 injection should be carried out in regular doses, by a dosage pump and a timer. 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.

### SECTION 8: Exposure controls/personal protection

<b>8.1. Control parameters</b>	
<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Recommended monitoring procedures</b>	Follow standard monitoring procedures.
<b>Derived no effect levels (DNELs)</b>	Not available.
<b>Predicted no effect concentrations (PNECs)</b>	Not available.
<b>8.2. Exposure controls</b>	
<b>Appropriate engineering controls</b>	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.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>General information</b>	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles) and a face shield. Face shield is recommended . CEN : EN 166



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<b>Skin protection</b>	
- Hand protection	Suitable gloves can be recommended by the glove supplier. For prolonged or repeated skin contact use suitable protective gloves. Full shoulder length neoprene gloves (Protection against unintentional short-term contact) Full shoulder length rubber gloves (Protection against unintentional short-term contact) Full shoulder length nitrile gloves (Protection against unintentional short-term contact) Full shoulder length butyl gloves (Protection against unintentional short-term contact) Penetration time: > 240 min Coating thickness: > 0,35 mm CEN : EN 374-1/2/3/4; EN 420
- Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Chemical resistant clothing that ensures full coverage of the hands, arms and body. CEN : EN ISO 13688; EN ISO 6530; EN ISO 6529; EN 14605
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment. In case of insufficient ventilation, use a breathing mask with filter type: A2 E2-P2 CEN : EN 140; EN 14387
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>Hygiene measures</b>	Keep away from food and drink. 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. Contaminated work clothing should not be allowed out of the workplace.
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

### SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid
<b>Colour</b>	Yellow to amber
<b>Odour</b>	Slight
<b>Melting point/freezing point</b>	-18 °C
<b>Boiling point or initial boiling point and boiling range</b>	Not available.
<b>Flammability</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
<b>Flash point</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>pH (concentrated product)</b>	1,9 Neat
<b>Kinematic viscosity</b>	Not available.
<b>Solubility</b>	
Solubility (water)	100 %
<b>Partition coefficient (n-octanol/water) (log value)</b>	Not available.
<b>Vapour pressure</b>	< 0,1 mmHg
<b>Vapour pressure temp.</b>	21 °C
<b>Density and/or relative density</b>	
Relative density	1,27



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Relative density temperature	21 °C
Vapour density	> 1
Particle characteristics	Not available.
<b>9.2. Other information</b>	
9.2.1. Information with regard to physical hazard classes	No relevant additional information available.
<b>9.2.2. Other safety characteristics</b>	
Evaporation rate	Slower than Ether
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
pH in aqueous solution	3,3 (5% Solution)
Pour point	-15 °C
Shelf life	360 Days
Specific gravity	1,27
Viscosity	64 mPa.s
Viscosity temperature	21 °C
VOC	0 % Calculated

### SECTION 10: Stability and reactivity

10.1. Reactivity	May be corrosive to metals.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Keep away from heat.
10.5. Incompatible materials	Strong bases. Strong oxidising agents. Metals.
10.6. Hazardous decomposition products	Hydrogen bromide. Keep below 60 °C. Above 120 °C bromine, cyanogen bromine and bromoacetonitrile are formed. Oxides of carbon and nitrogen evolved in fire.

### SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Information on likely routes of exposure</b>	
Inhalation	Harmful if inhaled.
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	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.

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

Acute toxicity	Harmful if inhaled. Harmful if swallowed.	
Product	Species	Test Results
SPECTRUS NX1102		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg (Calculated according to GHS additivity formula)



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Product	Species	Test Results
<b>Inhalation</b> LC50	Rat	1,3 mg/l, 4 hours (Calculated according to GHS additivity formula)
<b>Oral</b> LD50	Rat	510 mg/kg (Calculated according to GHS additivity formula)

Components	Species	Test Results
2,2-dibromo-2-cyanoacetamide (DBNPA) (CAS 10222-01-2)		
<b>Acute</b>		
<b>Dermal</b> LD50	Rabbit	> 2000 mg/kg
<b>Inhalation</b> LC50	Rat	0,32 mg/l, 4 hour
<b>Oral</b> LD50	Rat	206 mg/kg

<b>Skin corrosion/irritation</b>	Causes severe skin burns and eye damage.
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.
<b>Respiratory sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitisation</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</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>Reproductive toxicity</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>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Mixture versus substance information</b>	No information available.

### 11.2. Information on other hazards

<b>Endocrine disrupting properties</b>	The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
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Product	Species	Test Results
SPECTRUS NX1102		
<b>Aquatic</b>		
Algae	ErC50	Algae 1,5 mg/l, 72 hours
Crustacea	EC50	Daphnia magna 0,65 mg/l, 21 days (Reproduction EC50)
	LC50	Daphnia magna 3,3 mg/l, 48 hours 1,3 mg/l, 21 days
	Mysid Shrimp	0,72 mg/l, 48 hours (Data given as toxicity of active component.)



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Product		Species	Test Results
	LOEC	Daphnia magna	0,6 mg/l, 21 days (Reproduction LOEC)
	NOEL	Daphnia magna	2,15 mg/l, 48 hours
Fish	LC50	Bluegill sunfish	6,5 mg/l, 96 hours
		Fathead minnow	8,7 mg/l, 96 hours
		Rainbow trout	2,3 mg/l, 96 hours
		Sheepshead minnow	7 mg/l, 96 hours
	NOEL	Fathead minnow	3,1 mg/l, 96 hours
		Rainbow trout	1,8 mg/l, 96 hours
Other	LC50	Marine Copepod (Acartia tonsa or other)	1,78 mg/l, 48 hours

### 12.2. Persistence and degradability

	Readily biodegradable.
- COD (mgO <sub>2</sub> /g)	959
- TOC (mg C/g)	732

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water (log K<sub>ow</sub>)

2,2-dibromo-2-cyanoacetamide (DBNPA)	0,79
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#### Bioconcentration factor (BCF)

2,2-dibromo-2-cyanoacetamide (DBNPA)	13
	Species: Fish

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

**12.6. Endocrine disrupting properties** The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7. 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.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**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. According to Hazardous Waste Regulations.

European List of Wastes (LoW) 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 codes may be applicable too.



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

European List of Wastes (LoW) 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 codes may be applicable too. Do not discharge into drains, water courses or onto the ground.

**Special precautions** Dispose in accordance with all applicable regulations.

### SECTION 14: Transport information

#### ADR

**14.1. UN number or ID number** UN3265  
**14.2. UN proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,2-dibromo-2-cyanoacetamide (DBNPA, Mixture)  
**14.3. Transport hazard class(es)**  
Class 8  
Subsidiary risk -  
Tunnel restriction code (E)  
**14.4. Packing group** II  
**14.5. Environmental hazards** No.  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### RID

**14.1. UN number or ID number** UN3265  
**14.2. UN proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,2-dibromo-2-cyanoacetamide (DBNPA, Mixture)  
**14.3. Transport hazard class(es)**  
Class 8  
Subsidiary risk -  
**14.4. Packing group** II  
**14.5. Environmental hazards** No.  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### ADN

**14.1. UN number or ID number** UN3265  
**14.2. UN proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,2-dibromo-2-cyanoacetamide (DBNPA, Mixture)  
**14.3. Transport hazard class(es)**  
Class 8  
Subsidiary risk -  
**14.4. Packing group** II  
**14.5. Environmental hazards** No.  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### IATA

**14.1. UN number or ID number** UN3265  
**14.2. UN proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,2-dibromo-2-cyanoacetamide (DBNPA, Mixture)  
**14.3. Transport hazard class(es)**  
Class 8  
Subsidiary risk -  
**14.4. Packing group** II



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**14.5. Environmental hazards** No.  
**ERG Code** Not available.  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

### IMDG

**14.1. UN number or ID number** UN3265  
**14.2. UN proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,2-dibromo-2-cyanoacetamide (DBNPA, Mixture)  
**14.3. Transport hazard class(es)**  
**Class** 8  
**Subsidiary risk** -  
**14.4. Packing group** II  
**14.5. Environmental hazards**  
**Marine pollutant** No.  
**EmS** F-A, S-B  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
Not established.  
**14.7. Maritime transport in bulk according to IMO instruments** Not established.  
**ADN; ADR; IATA; IMDG; RID**



## 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 (EU) 2019/1021 On persistent organic pollutants (recast), 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



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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

Not listed.

### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

### National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

### Biocides

11: Preservatives for liquid-cooling and processing systems

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

### NSF Registered and/or meets USDA (according to 1998 guidelines):

Registration No. – 140725  
Category Code(s):  
G7 Boiler, steam line treatment products – nonfood contact

### 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

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstract Service.  
CEN: European Committee for Standardization.  
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.  
EC50: Effective Concentration 50%.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
LC50: Lethal Concentration 50%.  
LD50: Lethal Dose 50%.  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
NOEL: No observed effect level.  
PBT: Persistent, bioaccumulative and toxic.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.  
TOC: Total Organic Carbon.  
TWA: Time Weighted Average.  
vPvB: Very persistent and very bioaccumulative.  
COD: Chemical Oxygen Demand  
EC-No: European Commission Number



# SAFETY DATA SHEET

## SPECTRUS NX1102

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<b>References</b>	BOD: Biochemical oxygen demand. Safety data sheets of raw materials.
<b>Information on evaluation method leading to the classification of mixture</b>	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
<b>Full text of any H-statements not written out in full under Sections 2 to 15</b>	H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H330 Fatal if inhaled. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.
<b>Revision information</b>	This document has undergone significant changes and should be reviewed in its entirety.
<b>Training information</b>	Follow training instructions when handling this material.
<b>Disclaimer</b>	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.
<b>Based on EC Directive / Regulations</b>	(EC) No 1907/2006 (REACH) (EU) No 2020/878 (EC) No 1272/2008 (EU) No 1357/2014 (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: 2,3,4,5,6,7,8,9,10,11,12,13,15,16