



# SAFETY DATA SHEET

## SPECTRUS NX1104

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

#### 1.1. Product identifier

Trade name or designation of the mixture      SPECTRUS NX1104

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

Identified uses      Water-based microbial control agent.  
Uses advised against      None known.

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

AECI Water	Postal address
1 Wharhirst Road	AECI Water
Umbogintwini	P.O.Box 2954,
Durban.4126	Kempton Park, 1620
Kwa Zulu Natal South Africa	Gauteng.
Tel: +27 11 971 0400	
Website: www.improchem.co.za - www.aeciworld.com	
E-mail: aeciwater@aeciworld.com	

#### 1.4. Emergency telephone number

+27 800 SPILLS or +27 0800 774557 or +27 31 904 1400  
(Office Hrs)

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

### 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

##### Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Acute toxicity, inhalation	Category 2	H330 - Fatal if inhaled.
Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.

##### 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:      Dodecylguanidine hydrochloride (DGH) (CAS 13590-97-1) (52,47 g/l)  
                 Alkyl dimethyl benzyl ammonium chloride (CAS 68424-85-1) (79,2 g/l)



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### Hazard pictograms



**Signal word** Danger

### Hazard statements

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H330 Fatal if inhaled.  
H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

P273 Avoid release to the environment.

#### 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.  
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 mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

## SECTION 3: Composition/information on ingredients

### Mixtures

**Chemical description** Aqueous solution of quaternary ammonium salt, dodecylguanidine hydrochloride and alcohols.

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Alkyl dimethyl benzyl ammonium chloride	5 - < 10	68424-85-1 270-325-2	-	-	<b>Classification:</b> Acute Tox. 4;H302, Skin Corr. 1B;H314, Aquatic Acute 1;H400(M=10), Aquatic Chronic 1;H410
Dodecylguanidine hydrochloride (DGH)	5 - < 10	13590-97-1 237-030-0	-	-	<b>Classification:</b> Acute Tox. 4;H302, Acute Tox. 2;H330, Skin Corr. 1B;H314, Aquatic Acute 1;H400(M=10), Aquatic Chronic 1;H410(M=10)
Ethanol	1 - 3	64-17-5 200-578-6	01-2119457610-43	603-002-00-5	<b>Classification:</b> Flam. Liq. 2;H225, Eye Irrit. 2;H319
Propan-2-ol (Isopropyl alcohol)	1 - < 3	67-63-0 200-661-7	01-2119457558-25	603-117-00-0	<b>Classification:</b> Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336

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

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



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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.
<b>4.1. Description of first aid measures</b>	
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control centre immediately.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Rinse skin with water/shower. 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>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical 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>	During fire, gases hazardous to health may be formed.
<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>	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. Ensure adequate ventilation. Do not breathe mist. 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 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. Transport and store in approved containers according to applicable national and international regulations.



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**6.3. Methods and material for containment and cleaning up** Prevent entry into waterways, sewer, basements or confined areas.

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.

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.

**6.4. Reference to other sections** For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

### SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Do not breathe mist/vapours. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. 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. Combustible. Do not use around sparks or flames. Earth containers during filling or discharge when performed at temperatures at or above the product flash point. Do not create an aerosol.

**7.2. Conditions for safe storage, including any incompatibilities** Keep away from flames and sparks. Use approved containers only. Storage area to be marked with appropriate identification and hazard warning signs. Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

**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 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 Veolia Water Technologies & Solutions establishes for a specific application.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Propan-2-ol (Isopropyl alcohol) (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

##### South Africa. Recommended Exposure Limits (RELs) Regulations for Hazardous Chemical Substances, Table 2

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	2000 ppm
Propan-2-ol (Isopropyl alcohol) (CAS 67-63-0)	STEL	800 ppm
	TWA	400 ppm

##### Egypt. OELs. Threshold limits of air pollutants in the workplace (Decree No. 388, Annex 8), as amended

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm
Propan-2-ol (Isopropyl alcohol) (CAS 67-63-0)	STEL	1230 mg/m3
	TWA	500 ppm 983 mg/m3



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Egypt. OELs. Threshold limits of air pollutants in the workplace (Decree No. 388, Annex 8), as amended

Components	Type	Value
		400 ppm

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

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)**

### Workers

Components	Value	Assessment factor	Notes
Ethanol (CAS 64-17-5)			
Long-term, Systemic, Dermal	8238 mg/kg		Repeated dose toxicity
Long-term, Systemic, Inhalation	380 mg/m3		Carcinogenicity
Propan-2-ol (Isopropyl alcohol) (CAS 67-63-0)			
Long-term, Systemic, Dermal	888 mg/kg	1	
Long-term, Systemic, Inhalation	500 mg/m3	1	

**Predicted no effect concentrations (PNECs)**

Components	Value	Assessment factor	Notes
Ethanol (CAS 64-17-5)			
Freshwater	0,96 mg/l	10	
Intermittent releases	2,75 mg/l	100	
Marine water	0,79 mg/l	100	
Secondary poisoning	0,72 g/kg	90	Oral
Sediment (freshwater)	3,6 mg/kg		
Sediment (marine water)	2,9 mg/kg		
Soil	0,63 mg/kg	1000	
STP	580 mg/l	10	

### 8.2. Exposure controls

**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, such as personal protective equipment**

**General information** 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.

**Eye/face protection** Wear safety glasses with side shields (or goggles) and a face shield. Spoggles UVEX, Pyramex Capstone SANS1404 - EN166

#### Skin protection

**- Hand protection** For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be recommended by the glove supplier.

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  
 SANS1228 - EN 388, EN 374, EN 374-3, PVC C400  
 Wear appropriate chemical resistant gloves.

#### - Other

Wear appropriate chemical resistant clothing.  
 SANS 1068; SANS 434; EN 471, EN 469 or EN 533

#### Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA).  
 In case of insufficient ventilation, use a breathing mask with filter type: A2-P2  
 SANS 50140; SANS 50141

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.



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<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.
<b>Environmental exposure controls</b>	Inform appropriate managerial or supervisory personnel of all environmental releases. 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. 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>Physical state</b>	Liquid.
<b>Form</b>	Liquid
<b>Colour</b>	Colourless to yellow
<b>Odour</b>	Mild
<b>Melting point/freezing point</b>	-2 °C
<b>Boiling point or initial boiling point and boiling range</b>	99 °C
<b>Flammability</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit – upper (%)</b>	Not available.
<b>Flash point</b>	62 °C P-M(CC)
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>pH (concentrated product)</b>	3,4
<b>Kinematic viscosity</b>	Not available.
<b>Solubility</b>	
<b>Solubility (water)</b>	100 %
<b>Partition coefficient (n-octanol/water) (log value)</b>	Not available.
<b>Vapour pressure</b>	18 mm Hg
<b>Vapour pressure temp.</b>	21 °C
<b>Density and/or relative density</b>	
<b>Relative density</b>	0,99
<b>Relative density temperature</b>	21 °C
<b>Vapour density</b>	< 1 (Air = 1)
<b>Particle characteristics</b>	Not available.

#### 9.2. Other information

**9.2.1. Information with regard to physical hazard classes** No relevant additional information available.

#### 9.2.2. Other safety characteristics

<b>Evaporation rate</b>	< 1 (Ether = 1)
<b>pH in aqueous solution</b>	4,1 (5% SOL.)
<b>Pour point</b>	1 °C
<b>Shelf life</b>	270 days
<b>Viscosity</b>	25 cps
<b>Viscosity temperature</b>	21 °C



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VOC 4,3 % (Estimated)

### SECTION 10: Stability and reactivity

- 10.1. Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.
- 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** Heat. Avoid temperatures exceeding the flash point. Eliminate all sources of ignition. Protect from freezing.
- 10.5. Incompatible materials** Strong oxidising agents.
- 10.6. Hazardous decomposition products** Carbon oxides. Nitrogen oxides (NOx). Ammonia. Hydrogen chloride.

### SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

#### Information on likely routes of exposure

- Inhalation** Fatal if inhaled.
- Skin contact** Causes severe skin burns.
- 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** Fatal if inhaled. Harmful if swallowed.

Product	Species	Test Results
SPECTRUS NX1104		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg
<b>Inhalation</b>		
<i>Mist</i>		
LC50	Rat	0,06 - 0,55 mg/l, 4 hour (GHS Category 2)
<b>Oral</b>		
LD50	Rat	1750 mg/kg (GHS Category 4)
Components	Species	Test Results
Alkyl dimethyl benzyl ammonium chloride (CAS 68424-85-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	3340 mg/kg
<b>Oral</b>		
LD50	Rat	344 mg/kg
Dodecylguanidine hydrochloride (DGH) (CAS 13590-97-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	704 mg/kg
<b>Inhalation</b>		
LC50	Rat	< 0,054 mg/l, 4 hour



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Components	Species	Test Results
<b>Oral</b>		
LD50	Rat	305 mg/kg
Ethanol (CAS 64-17-5)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg
<b>Inhalation</b>		
LC50	Rat	124,7 mg/l/4h
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
Propan-2-ol (Isopropyl alcohol) (CAS 67-63-0)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg
<b>Inhalation</b>		
LC50	Rat	72,6 mg/l, 4 hour
<b>Oral</b>		
LD50	Rat	5045 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>	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.	
<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>	This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** Very toxic to aquatic life with long lasting effects.

Product	Species	Test Results
<b>Aquatic</b>		
Crustacea	LC50	Daphnia magna 0,16 mg/l, 48 hour
	NOEL	Daphnia magna 0,1 mg/l, 48 hour
Fish	LC50	Fathead minnow 2,9 mg/l, 96 hour
	NOEL	Fathead minnow 1 mg/l, 96 hour



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### 12.2. Persistence and degradability

- COD (mgO <sub>2</sub> /g)	482 (calculated data)
- BOD 5 (mgO <sub>2</sub> /g)	9 (calculated data)
- BOD 28 (mgO <sub>2</sub> /g)	24 (calculated data)
- Closed Bottle Test (% Degradation in 28 days)	15 (calculated data)
- Zahn-Wellens Test (% Degradation in 28 days)	12 (calculated data)
- TOC (mg C/g)	103 (calculated data)

12.3. Bioaccumulative potential No data available.

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

Ethanol	-0,31
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Bioconcentration factor (BCF) Not available.

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 This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

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.  Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.
Disposal methods/information	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.  Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.
Special precautions	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

14.1. UN number or ID number	UN2927
14.2. UN proper shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (Dodecylguanidine hydrochloride, Alkyl dimethyl benzyl ammonium chloride, mixture)
14.3. Transport hazard class(es)	
Class	6.1
Subsidiary risk	8
Tunnel restriction code	(D/E)
14.4. Packing group	II
14.5. Environmental hazards	Yes



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**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

### RID

**14.1. UN number or ID number** UN2927

**14.2. UN proper shipping name** TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (Dodecylguanidine hydrochloride, Alkyl dimethyl benzyl ammonium chloride, mixture)

**14.3. Transport hazard class(es)**

**Class** 6.1

**Subsidiary risk** 8

**14.4. Packing group** II

**14.5. Environmental hazards** Yes

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

### ADN

**14.1. UN number or ID number** UN2927

**14.2. UN proper shipping name** TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (Dodecylguanidine hydrochloride, Alkyl dimethyl benzyl ammonium chloride, mixture)

**14.3. Transport hazard class(es)**

**Class** 6.1

**Subsidiary risk** 8

**14.4. Packing group** II

**14.5. Environmental hazards** Yes

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

### IATA

**14.1. UN number or ID number** UN2927

**14.2. UN proper shipping name** TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (Dodecylguanidine hydrochloride, Alkyl dimethyl benzyl ammonium chloride, mixture)

**14.3. Transport hazard class(es)**

**Class** 6.1

**Subsidiary risk** 8

**14.4. Packing group** II

**14.5. Environmental hazards** Yes

**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** UN2927

**14.2. UN proper shipping name** TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (Dodecylguanidine hydrochloride, Alkyl dimethyl benzyl ammonium chloride, mixture)

**14.3. Transport hazard class(es)**

**Class** 6.1

**Subsidiary risk** 8

**14.4. Packing group** II

**14.5. Environmental hazards**

**Marine pollutant** Yes

**EmS** F-A, S-B

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

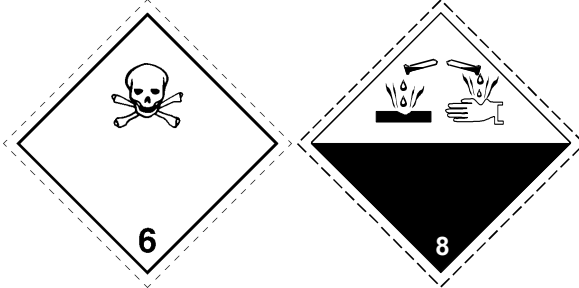
**14.7. Maritime transport in bulk according to IMO instruments** Not established.



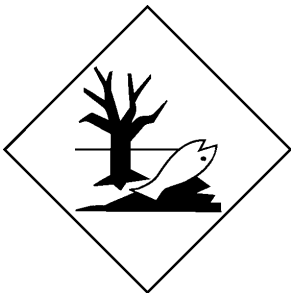
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ADN; ADR; IATA; IMDG; RID



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 (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

**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**

Ethanol (CAS 64-17-5)

Propan-2-ol (Isopropyl alcohol) (CAS 67-63-0)



# SAFETY DATA SHEET

## SPECTRUS NX1104

<b>Other regulations</b>	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended.
<b>National regulations</b>	Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.
<b>15.2. Chemical safety assessment</b>	No Chemical Safety Assessment has been carried out.
<b>NSF Registered and/or meets USDA (according to 1998 guidelines):</b>	Registration No. – 141061 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

### 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  
BOD: Biochemical oxygen demand.  
Safety data sheets of raw materials.

### References

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

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### Full text of any statements, which are not written out in full under sections 2 to 15

H225 Highly flammable liquid and vapour.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H336 May cause drowsiness or dizziness.



# SAFETY DATA SHEET

## SPECTRUS NX1104

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<b>Revision information</b>	H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Composition / Information on Ingredients: Disclosure Overrides SECTION 7: Handling and storage: 7.2. Conditions for safe storage, including any incompatibilities SECTION 15: Regulatory information: Restrictions on use SECTION 16: Other information: Disclaimer
<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>	(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 South African Standard : SABS ISO 11014-1:2009 - SANS 10234:2008
<b>Further information</b>	Correction in Section: 2,3,4,5,6,7,8,9,10,11,12,13