



SAFETY DATA SHEET

SPECTRUS NX1104

1 IDENTIFICATION OF PREPARATION AND OF COMPANY

1.1 Identification of the substance or preparation

Product: SPECTRUS NX1104

1.2 Use of substance/preparation

Biocide

1.3 Company/undertaking identification

GE Water & Process Technologies France SNC

Allée du 1er Mai

Parc d'Activités de Paris-Est

F-77183 Croissy Beaubourg

Tel.: 01 60 37 59 60

1.4 Emergency telephone

- GE Betz (24h/24h) : 01 60 37 00 00

- Official advisory body

ORFILA : 01 45 42 59 59

2 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description

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

Hazardous component(s)	EINECS/ELINCS #	CAS #	Conc.
Alkyl dimethyl benzyl ammonium chloride C, N, R22-34-50	270-325-2	68424-85-1	5 - 10 %
Dodecylguanidine hydrochloride (DGH) T+,N, R26-22-34-41-50	237-030-0	13590-97-1	1 - 7 %
Ethanol F, R11	200-578-6	64-17-5	1 - 5 %
Propan-2-ol (Isopropyl alcohol) F, Xi, R11-36-67	200-661-7	67-63-0	1 - 5 %

Remarks

The classification of the above substance(s) is given, including the symbol letters and R phrases which are assigned in accordance with their physicochemical, health and environmental hazards. Please refer to section 16 (Relevant R phrases, used in sections 2 and 3 of this SDS), where the full text of each relevant R phrase is listed.



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3 HAZARDS IDENTIFICATION

Important hazards

- Health/physical hazard Toxic by inhalation.
Causes burns.
- Symptoms of exposure Inhalation of vapours/mists/aerosols may cause eye, nose, throat and lung irritation.
Skin contact may cause severe irritation or burns.
- Environmental hazards The product is not classified as dangerous for the environment.

4 FIRST AID MEASURES

- Skin contact** Immediately remove all contaminated clothing.
Wash immediately with plenty of water.
Seek medical attention.
- Eye contact** Flush immediately with plenty of running water.
Continue rinsing for at least 10 minutes.
Keep eyelids apart.
Seek medical attention.
- Inhalation** Remove patient to fresh air, allow to rest and keep warm.
In case of loss of consciousness, give artificial respiration.
Seek medical attention.
- Ingestion** First rinse mouth with water.
Immediately give 1-2 glasses of water, if victim is fully conscious.
Do NOT induce vomiting!
Seek medical attention.

5 FIRE-FIGHTING MEASURES

Extinguishing Media

- Suitable Carbon dioxide, dry chemicals, foam, water spray (fog).

Special protective equipment for fire fighters Self contained breathing apparatus. (CEN : EN 137)
Protective clothing (CEN : EN 469)
Protective gloves (CEN : EN 659)
Helmet (CEN : EN 443)

Special exposure hazards Thermal decomposition or combustion may produce oxides of carbon, ammonia, oxides of nitrogen and/or hydrogen chloride.

Flash point (PMCC) 65 °C

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions** Ensure good ventilation.
Wear protective clothing, gloves and safety goggles.
Please refer also to section no. 8 'Exposure controls' for further information.
- Environmental precautions** Prevent from entering sewers or the immediate environment.
Accidental release of large quantities into the aquatic environment may harm aquatic organisms.



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Methods for Cleaning Up

- on soil
Remove sources of ignition.
Absorb onto inert material and dispose of according to Special Waste Regulations.
Flush area with water.
Spread sand/grit.

7 HANDLING AND STORAGE

- 7.1 Handling** 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.

- 7.2 Storage** Do not freeze.
Keep away from flames and sparks.
Store containers closed when not in use.

Maximum storage stability (days) 90

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

- VME/VLE (INRS) Ethanol : 1000 ppm 1900 mg/m³ (VME) - 5000 ppm 9500 mg/m³ (VLE)
Propan-2-ol (Isopropyl alcohol) : néant (VME) - 400 ppm 980 mg/m³ (VLE)

Exposure controls

- Recommended engineering controls Adequate ventilation to maintain air contaminants below exposure limits.
- Respiratory protection In case of insufficient ventilation, use a breathing mask with filter type: A2-P2
CEN : EN 140; EN 141
- Hand protection Gauntlet type neoprene gloves (Protection against unintentional short-term contact)
CEN : EN 374-1/2/3; EN 420
- Eye protection Splash proof chemical goggles.
Face shield.
CEN : EN 166
- Skin protection Chemical resistant apron.
CEN : EN 340; EN 368; EN 369; EN 467
- Environmental exposure controls Prevent from entering in public sewers or the immediate environment.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

- Appearance Liquid
- Colour Colourless to yellow
- Odour Mild

9.2 Important health, safety and environmental info

- pH (concentrated product) 3,4
- pH in aqueous solution 4,1 (5%)
- Flash point (Pensky/Martens) (°C) 65
- Density at 20°C (kg/m³) 990



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9.2 Important health, safety and environmental info

Solubility in water (% weight)	Completely soluble
Viscosity at 20°C (mPas)	11
Relative vapour density (air=1)	< 1
Evaporation rate (ether=1)	< 1

9.3 Other information

Melting point, (°C)	-2
Pour point, (°C)	1

10 STABILITY AND REACTIVITY

10.1 Conditions to avoid Avoid sources of ignition.
Keep away from heat.
Protect from freezing.

10.2 Materials to avoid Avoid contact with strong oxidisers.

10.3 Hazardous decomposition products Thermal decomposition or combustion may produce oxides of carbon, ammonia, oxides of nitrogen and/or hydrogen chloride.

11 TOXICOLOGICAL INFORMATION

Mammalian Test Data

- Oral LD50, rat (mg/kg) > 1000 (estimated value)
- Dermal LD50, rabbit (mg/kg) > 2000 (estimated value)

Exposure hazard

- Inhalation Irritating to respiratory system.
May cause coughing, breathing difficulties, or shortness of breath.
May cause nausea, dizziness and/or vomiting.
- Skin contact Causes burns.
- Eye contact Causes burns.
- Ingestion May cause burns in mouth, throat and/or stomach.



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12 ECOLOGICAL INFORMATION

Ecotoxicity

- Rainbow Trout (mg/l) LC50 : 0,93 (Refers to active component: Alkyl dimethyl benzyl ammonium chloride)
96 hour Acute Toxicity
- Fathead minnow (mg/l) LC50 : 2,9
NOEL : 1
96 hour static renewal bioassay
- Daphnia Magna (mg/l) EC50 : 0,0058 (Refers to active component: Alkyl dimethyl benzyl ammonium chloride)
48 hour Acute Toxicity
- Active sludge inhibition (mg/l) LC50 : 0,16
NOEL : 0,1
48 hour static renewal bioassay
EC50 : 10 (Refers to active component: Alkyl dimethyl benzyl ammonium chloride)
OECD 209

Persistence and degradability

- COD (mgO₂/g) 482 (calculated data)
- BOD 5 (mgO₂/g) 9 (calculated data)
- BOD 28 (mgO₂/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)
- Biodegradation (%) 84 % degradation in 28 days (Refers to active component: Alkyl dimethyl benzyl ammonium chloride)
CO₂ Evolution (Modified Sturm Test) (OECD 301B)

Bioaccumulative potential

- Bioaccumulation Not bioaccumulating
(Refers to active component) (Alkyl dimethyl benzyl ammonium chloride): BCF : 79

Summary

The product is not classified as dangerous for the environment.
The evaluation of environmental hazards is based on the concentration limits as set out in directive 1999/45/EC.

13 DISPOSAL CONSIDERATIONS

Disposal of product

According to Special Waste Regulations.

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



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Disposal of packaging According to Special Waste Regulations.

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

14 TRANSPORT INFORMATION

Substance id.no. (SIN) (UN No.) 3265

Correct shipping name Corrosive liquid, acidic, organic, n.o.s.

- Contains Dodecylguanidine hydrochloride (DGH) mixture
Alkyl dimethyl benzyl ammonium chloride mixture

Land transport

- Transport hazard label 8
Corrosive

- RID/ADR classification 8

- Packaging group III

Maritime transport

- Transport hazard label 8
Corrosive

- IMO-IMDG class 8

- Packaging group III

- EmS no. F-A, S-B

- MFAG no. See Emergency action guide.
The treatment recommended in this Guide is specified in the appropriate tables and more comprehensive in the appropriate sections of the Appendices.

Air transport

- Transport hazard label 8
Corrosive

- ICAO/IATA classification 8

Other information TREMCARD 80GC3-III



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15 REGULATORY INFORMATION

EEC labelling information

- Symbol(s) Toxic:T
- Contains Dodecylguanidine hydrochloride (DGH) (5,3 %)
Alkyl dimethyl benzyl ammonium chloride (8,0 %)
- R Phrase(s) R 23 :Toxic by inhalation.
R 34 :Causes burns.
- S Phrase(s) S 26 :In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 28 :After contact with skin, wash immediately with plenty of soap and water.
S 36/37/39 :Wear suitable protective clothing, gloves and eye/face protection.
S 45 :In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- EINECS number All ingredients of this product are listed in EINECS or ELINCS, unless specifically exempted under the EEC Directive 67/548/EEC.
- France Tableau des maladies professionnelles n° 84

16 OTHER INFORMATION

- Nature of revision** Correction in Section: 9
- Based on EC Directive** 1999/45/EC
2001/58/EC
2001/118/EC
1998/8/EC (Biocidal Product Directive)
All active ingredients have been identified/notified for the relevant Product Types according to the First Review Regulation on existing active substances (EC) No. 1896/2000

This information is based on our current knowledge and is intended to describe the product for the purpose of safety requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
- Relevant R phrases, used in sections 2 and 3 of this SDS** R 11 : Highly flammable.
R 22 : Harmful if swallowed.
R 26 : Very toxic by inhalation.
R 34 : Causes burns.
R 36 : Irritating to eyes.
R 41 : Risk of serious damage to eyes.
R 50 : Very toxic to aquatic organisms.
R 67 : Vapours may cause drowsiness and dizziness.
R 23 : Toxic by inhalation.