Version: 4 .3
Effective Date: 28/04/2009
Previous Date: 13/08/2008

SAFETY DATA SHEET

SPECTRUS NX1422

1 IDENTIFICATION OF PREPARATION AND OF COMPANY

1.1 Identification of the substance or preparation

Product : SPECTRUS NX1422

1.2 Use of substance/preparation

Biocide

1.3 Company/undertaking identification

GE Water & Process Technologies France S.A.S.
Allée du 1er Mai
Parc d'Activités de Paris-Est
F-77183 Croissy Beaubourg
Tel.: 01 60 37 59 60
e-mail : emea.productstewardship@ge.com

1.4 Emergency telephone

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

- Official advisory body
ORFILA : 01 45 42 59 59

2 HAZARDS IDENTIFICATION

Important hazards

- Health/physical hazard	Causes burns.
- Symptoms of exposure	Inhalation may cause irritation of mucous membranes and respiratory tract. Skin contact causes severe irritation or burns.
- Environmental hazards	Very toxic to aquatic organisms.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description

Water based quaternary ammonium salt

Hazardous component(s)	EINECS/ELINCS #	CAS #	Conc.
Alkyl dimethyl benzyl ammonium chloride C, N, R21/22-34-50	270-325-2	68424-85-1	10 - 25 %
Ethanol F, R11	200-578-6	64-17-5	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.

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.
Seek medical attention.

Inhalation
Remove victim to fresh air and allow to rest.
Seek medical advice.

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
Ammonia, hydrogen chloride, oxides of carbon and nitrogen evolved in fire.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions
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.
Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

Methods for Cleaning Up

- on soil: Absorb onto inert material and dispose of according to Hazardous Waste Regulations.
Remove small spills with plenty of water.

7 HANDLING AND STORAGE

7.1 Handling
Avoid contact with skin and eyes.

7.2 Storage
Do not freeze.
If frozen, thaw completely and mix thoroughly prior to use.
Store containers closed when not in use.

7.3 Specific use(s)
Only for professional and industrial users
The material which has been in contact with this product can be cleaned with water.

Maximum storage stability (days) 360

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

- VME/VLE (INRS)	Ethanol : 1000 ppm 1900 mg/m3 (VME) - 5000 ppm 9500 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. Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Appearance	Liquid
Colour	Colourless to yellow
Odour	Slight

9.2 Important health, safety and environmental info

pH (concentrated product)	8,1
pH in aqueous solution	7,9 (5%)
Boiling point/range (°C)	98
Flash point (Pensky/Martens) (°C)	> 100
Density at 20°C (kg/m3)	989
Solubility in water (% weight)	Completely soluble
Viscosity at 20°C (mPas)	3
Relative vapour density (air=1)	< 1
Evaporation rate (ether=1)	< 1

9.3 Other information

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

10 STABILITY AND REACTIVITY

10.1 Conditions to avoid	Protect from freezing.
10.2 Materials to avoid	Avoid contact with strong oxidisers.

10.3 Hazardous decomposition products	Ammonia, hydrogen chloride, oxides of carbon and nitrogen evolved in fire.

11 TOXICOLOGICAL INFORMATION

Mammalian Test Data

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

Exposure hazard

- Inhalation	Irritating to respiratory system.
- Skin contact	Causes burns.
- Eye contact	Causes burns.
- Ingestion	May cause burns in mouth, throat and/or stomach.

12 ECOLOGICAL INFORMATION

Ecotoxicity

- Rainbow Trout (mg/l)	LC50 : 0,93 (Refers to active component: Alkyl dimethyl benzyl ammonium chloride) 96 hour Acute Toxicity LC50 : 10 NOEL : 6 96 hour flow through bioassay
- Fathead minnow (mg/l)	LC50 : 4 NOEL : 2 96 hour flow through bioassay
- Sheepshead minnow (mg/l)	LC50 : 8,8 NOEL : 5 96 hour flow through bioassay
- Menidia beryllina (mg/l)	LC50 : 3,1 NOEL : 1,75 96 hour flow through bioassay
- Daphnia Magna (mg/l)	EC50 : 0,016 (Refers to active component: Alkyl dimethyl benzyl ammonium chloride) 48 hour Acute Toxicity LC50 : 0,2 NOEL : 0,13 48 hour flow through bioassay
- Mysid shrimp (mg/l)	LC50 : 0,8 NOEL : 0,15 96 hour flow through bioassay
- Active sludge inhibition (mg/l)	EC50 : 10 (Refers to active component: Alkyl dimethyl benzyl ammonium chloride) OECD 209

Persistence and degradability

- 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	Very toxic to aquatic organisms. 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 Hazardous 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.
Disposal of packaging	According to Hazardous 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	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

Air transport

- ICAO/IATA classification 8

15 REGULATORY INFORMATION

EEC labelling information

- Symbol(s)

Corrosive:C

Dangerous for the environment: N

- Contains Alkyl dimethyl benzyl ammonium chloride (CAS 68424-85-1) (98,9 g/l)

- R Phrase(s)
R 34 :Causes burns.
R 50 :Very toxic to aquatic organisms.

- 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).
S 61 :Avoid release to the environment. Refer to special instructions/Safety data sheets.

- 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: 7

Based on EC Directive / Regulations
1999/45/EC
2001/58/EC
2001/118/EC
2006/8/EC
(EC) No 1907/2006 (REACH)
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 garanteeing any specific property of the product.

Relevant R phrases, used in sections 2 and 3 of this SDS
R 11 : Highly flammable.
R 34 : Causes burns.
R 50 : Very toxic to aquatic organisms.
R 21/22 : Harmful in contact with skin and if swallowed.