



SAFETY DATA SHEET

SPECTRUS OX909

1 IDENTIFICATION OF PREPARATION AND OF COMPANY

1.1 Identification of the substance or preparation

Product: SPECTRUS OX909

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 alkaline solution of inorganic salts

Hazardous component(s)	EINECS/ELINCS #	CAS #	Conc.
Sodium hydroxide C, R35	215-185-5	1310-73-2	> 5 %
Bromine chloride T,C,R23-35	237-601-4	13863-41-7	10 - 25 %

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.

3 HAZARDS IDENTIFICATION

Important hazards

- Health/physical hazard Causes severe burns.
- Environmental hazards The product is not classified as dangerous for the environment.



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4 FIRST AID MEASURES

Skin contact	Remove contaminated clothing. Wash immediately with plenty of water. Seek medical attention.
Eye contact	Flush immediately with plenty of running water. Seek medical attention.
Inhalation	Remove patient to fresh air, allow to rest and keep warm. Seek medical attention.
Ingestion	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 Toxic fumes may be released 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.
Accidental release of large quantities into the aquatic environment may harm aquatic organisms.

Methods for Cleaning Up

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

7 HANDLING AND STORAGE

7.1 Handling Handle in accordance with good industrial hygiene and safety procedures.
Use only in well-ventilated areas.

7.2 Storage Store at temperatures below 50 °C
Keep away from heat, sparks and other sources of ignition.
Store containers closed when not in use.

Maximum storage stability (days) 70

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

- VME/VLE (INRS) Sodium hydroxide : 2mg/m3 (VME)-néant (VLE)



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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: P2
CEN : EN 140; EN 143; EN 149
- 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	Yellow

9.2 Important health, safety and environmental info

pH (concentrated product)	13
Flash point (Pensky/Martens)	(°C) > 100
Density at 20°C (kg/m ³)	1370
Solubility in water (% weight)	Completely soluble
Viscosity at 20°C (mPas)	2

10 STABILITY AND REACTIVITY

- 10.1 Conditions to avoid** Keep away from heat.
- 10.2 Materials to avoid** Reacts with metals (iron, copper and aluminium).
- 10.3 Hazardous decomposition products** Chlorine.
Hydrogen bromide.

11 TOXICOLOGICAL INFORMATION

Mammalian Test Data

- Oral LD50, rat (mg/kg)	2491
- Dermal LD50, rabbit (mg/kg)	> 2000
- Inhalation LC50, rat, 4h (mg/l)	> 5

Exposure hazard

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



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12 ECOLOGICAL INFORMATION

Ecotoxicity

- Rainbow Trout (mg/l) LC50 : 3
96 hour static acute bioassay
- Bluegill sunfish (mg/l) LC50 : 3,8
96 hour static acute bioassay
- Daphnia Magna (mg/l) EC50 : 4,8
48 hour static acute bioassay
- Algae Inhibition (mg/l) EC50 : 2,6
96 hour, Growth Inhibition Test (OECD 201)

Persistence and degradability

- Abiotic degradation At natural pHs (>6) the product degrades due to hydrolysis to more than 70% in 28 days.
The hydrolysis products are not harmful to aquatic organisms.

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 03
16 Wastes not otherwise specified in the list.
16 03 Off-specification batches and unused products.
16 03 03 Inorganic 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 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.) 3266

Correct shipping name Corrosive liquid, basic, inorganic, n.o.s.

- Contains Sodium hydroxide mixture
Bromine chloride, mixture

Land transport

- Transport hazard label 8
Corrosive
- RID/ADR classification 8
- Packaging group III



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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 section of the Appendices.

Air transport

- Transport hazard label 8
Corrosive
- ICAO/IATA classification 8

Other information TREMCARD 80GC5-III

15 REGULATORY INFORMATION

EEC labelling information

- Symbol(s) Corrosive:C
- Contains Sodium hydroxide
Bromine chloride (11,0 %)
- R Phrase(s) R 35 :Causes severe 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.

16 OTHER INFORMATION

- SDS issued on** 14/04/2005
- Nature of revision** Correction in Section: 15
- Based on EC Directive** 1999/45/EC
2001/58/EC
2001/118/EC

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 23 : Toxic by inhalation.
R 35 : Causes severe burns.