



SAFETY DATA SHEET

OPTISPERSE HP5494

1 IDENTIFICATION OF PREPARATION AND OF COMPANY

1.1 Identification of the substance or preparation

Product : OPTISPERSE HP5494

1.2 Use of substance/preparation

Internal boiler treatment

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.
Spills of this product are very slippery.
- Symptoms of exposure Inhalation may cause irritation of mucous membranes and respiratory tract.
- Environmental hazards The product is not classified as dangerous for the environment.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description

Polymer/phosphate solution

Hazardous component(s)	EINECS/ELINCS #	CAS #	Conc.
Sodium hydroxide C, R35	215-185-5	1310-73-2	2 - 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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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. Keep eyelids apart. 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). Foam or water create a slippery condition. Spread sand or grit.
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	Oxides of carbon and phosphorus 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. Accidental release of large quantities into the aquatic environment may harm aquatic organisms.
Methods for Cleaning Up - on soil	Spills of the product are very slippery. Absorb onto inert material and dispose of according to Hazardous Waste Regulations. Remove small spills with plenty of water. Spread sand/grit.

7 HANDLING AND STORAGE

7.1 Handling	Alkaline. Do not mix with acidic material.
7.2 Storage	Store containers closed when not in use. Do not freeze. If frozen, thaw completely and mix thoroughly prior to use.
7.3 Specific uses(s)	Only for professional and industrial users



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Maximum storage stability (days) 90

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

- VME/VLE (INRS) Sodium hydroxide : 2mg/m³ (VME)-néant (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: B2-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 Slight

9.2 Important health, safety and environmental info

pH in aqueous solution 12,5 (5%)
Flash point (Pensky/Martens) (°C) > 100
Density at 20°C (kg/m³) 1128
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) -8

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 Oxides of carbon and phosphorus evolved in fire.



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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 Mists or aerosols cause irritation to upper respiratory tract.
- Skin contact Causes burns.
- Eye contact Causes burns.
- Ingestion Causes burns in mouth, throat and/or stomach.

12 ECOLOGICAL INFORMATION

Ecotoxicity

- Fathead minnow (mg/l) LC50 : 4650 (Calculated data)
NOEL : 2540 (Calculated data)
96 hour Acute Toxicity
- Daphnia Magna (mg/l) LC50 : 3880 (Calculated data)
NOEL : 2210 (Calculated data)
48 hour Acute Toxicity

Persistence and degradability

- COD (mgO₂/g) 50 (calculated data)
- TOC (mg C/g) 15 (calculated data)

Bioaccumulative potential

- Bioaccumulation Not bioaccumulating

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 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.



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14 TRANSPORT INFORMATION

Substance id.no. (SIN) (UN No.)	3266
Correct shipping name	Corrosive liquid, basic, inorganic, n.o.s.
- Contains	Sodium hydroxide 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

15 REGULATORY INFORMATION

EEC labelling information

- Symbol(s)	 Corrosive:C
- Contains	Sodium hydroxide
- R Phrase(s)	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 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.



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16 OTHER INFORMATION

Nature of revision Correction in Section: 1,14

Based on EC Directive / Regulations 1999/45/EC
2001/118/EC
2001/58/EC
(EC) No 1907/2006 (REACH)

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 35 : Causes severe burns.
R 34 : Causes burns.