



SAFETY DATA SHEET

OPTISPERSE HP5493

1 IDENTIFICATION OF PREPARATION AND OF COMPANY

1.1 Identification of the substance or preparation

Product : OPTISPERSE HP5493

1.2 Use of substance/preparation

Internal boiler treatment

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

Polymer/phosphate solution

Hazardous component(s)

Sodium hydroxide

C, R35

EINECS/ELINCS #

215-185-5

CAS #

1310-73-2

Conc.

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.

3 HAZARDS IDENTIFICATION

Important hazards

- Health/physical hazard

Causes burns.

- 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.

4 FIRST AID MEASURES

Skin contact

Immediately remove all contaminated clothing.
Wash immediately with plenty of water.
Seek medical attention.



SAFETY DATA SHEET

OPTISPERSE HP5493

Eye contact Phrases, used in sections 2 and 3 of this SDS	R13: Irritating R36: Causes eye irritation R41: Causes serious eye damage S3: Irrigate eyes with plenty of running water. Continue rinsing for at least 10 minutes. S6: Keep eyelids apart. S7: Seek medical attention.
Inhalation	R12: Harmful S2: Remove victim to fresh air and allow to rest. S7: Seek medical attention.
Ingestion	R12: Harmful S2: First rinse mouth with water. S3: Immediately give 1-2 glasses of water, if victim is fully conscious. S6: Do NOT induce vomiting! S7: 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 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 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.

Maximum storage stability (days) 90

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

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



SAFETY DATA SHEET

OPTISPERSE HP5493

Exposure controls

- Recommended engineering controls Adequate ventilation to maintain air contaminants below exposure limits.
Arrange for eye wash possibility.
- 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	Colourless to yellow
Odour	Slight

9.2 Important health, safety and environmental info

pH in aqueous solution	12,4 (5%)
Flash point (Pensky/Martens)	(°C) > 100
Density at 20°C (kg/m ³)	1121
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)	-6,6
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10 STABILITY AND REACTIVITY

- 10.1 Conditions to avoid** Protect from freezing.
- 10.2 Materials to avoid** Avoid contact with strong acids and oxidisers.
- 10.3 Hazardous decomposition products** Oxides of carbon and phosphorus 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)



SAFETY DATA SHEET

OPTISPERSE HP5493

Exposure hazard

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

12 ECOLOGICAL INFORMATION

Ecotoxicity

- Fathead minnow (mg/l) LC50 : 4670
NOEL : 2560
(Calculated data)
96 hour Acute Toxicity
- Daphnia Magna (mg/l) LC50 : 3900
NOEL : 2230
(Calculated data)
48 hour Acute Toxicity

Persistence and degradability

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

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 03 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 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



SAFETY DATA SHEET

OPTISPERSE HP5493

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 80GC5-III

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.

16 OTHER INFORMATION

Nature of revision Correction in Section: 8,9,14,16

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.



SAFETY DATA SHEET

OPTISPERSE HP5493

Relevant R phrases, used in sections 2 and 3 of this SDS

R 35 : Causes severe burns.

R 34 : Causes burns.