



## SAFETY DATA SHEET

# FLOGARD MS6209

## 1 IDENTIFICATION OF PREPARATION AND OF COMPANY

### 1.1 Identification of the substance or preparation

Product : FLOGARD MS6209

### 1.2 Use of substance/preparation

Corrosion inhibitor

### 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   | Skin contact causes severe irritation or burns.<br>Inhalation may cause irritation of mucous membranes and respiratory tract. |
| - Environmental hazards  | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.                              |

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Chemical description

Inorganic solution

### Hazardous component(s)

Hazardous component(s)	EINECS/ELINCS #	CAS #	Conc.
Phosphoric Acid C, R34	231-633-2	7664-38-2	> 25 %
Zinc oxide N, R50/53	215-222-5	1314-13-2	2.5 - 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.



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#### 4 FIRST AID MEASURES

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

#### 5 FIRE-FIGHTING MEASURES

<b>Extinguishing Media</b> - Suitable	Carbon dioxide, dry chemicals, foam, water spray (fog).
<b>Special protective equipment for fire fighters</b>	Self contained breathing apparatus. (CEN : EN 137) Protective clothing (CEN : EN 469) Protective gloves (CEN : EN 659) Helmet (CEN : EN 443)
<b>Special exposure hazards</b>	Oxides of phosphorus evolved in fire.

#### 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Wear protective clothing, gloves and safety goggles. Please refer also to section no. 8 'Exposure controls' for further information.
<b>Environmental precautions</b>	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.
<b>Methods for Cleaning Up</b> - on soil	Absorb onto inert material and dispose of according to Hazardous Waste Regulations. Neutralise with soda ash. Remove small spills with plenty of water.

#### 7 HANDLING AND STORAGE

<b>7.1 Handling</b>	Acidic. Do not mix with alkaline material.
<b>7.2 Storage</b>	Preferably stored between 4 - 38 °C
<b>7.3 Specific uses</b>	Only for professional and industrial users
<b>Maximum storage stability (days)</b>	720

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION



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#### Exposure limit values

- VME/VLE (IINRS) Phosphoric Acid : 0.2 ppm, 1mg/m<sup>3</sup> (VME) - 0.5 ppm, 2 mg/m<sup>3</sup> (VLE)  
Zinc oxide : fumes : 5 mg/m<sup>3</sup> (VME) , dust : 10 mg/m<sup>3</sup> (VME)

#### 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.  
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) <1  
pH in aqueous solution 2,2 (5%)  
Flash point (Pensky/Martens) (°C) >100  
Density at 20°C (kg/m<sup>3</sup>) 1712  
Viscosity at 20°C (mPas) 50  
Relative vapour density (air=1) <1  
Evaporation rate (ether=1) <1

### 9.3 Other information

Melting point, (°C) < -34  
Pour point, (°C) < -34

## 10 STABILITY AND REACTIVITY

**10.1 Conditions to avoid** May in contact with certain metals, such as zinc, magnesium, release hydrogen gas which may form explosive mixtures in air.

**10.2 Materials to avoid** Avoid contact with strong acids and oxidisers.

**10.3 Hazardous decomposition products** Oxides of phosphorus evolved in fire.



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## 11 TOXICOLOGICAL INFORMATION

### Mammalian Test Data

- Oral LD50, rat (mg/kg) >2500 (estimated value)
- Dermal LD50, rabbit (mg/kg) >5000 (estimated value)
- Inhalation LC50, rat, 4h (mg/l) > 5 (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

- Rainbow Trout (mg/l) LC50 : 4,9  
NOEL : 1,6  
96 hour static renewal bioassay
- Fathead minnow (mg/l) LC50 : 14  
NOEL : 2,5  
96 hour static renewal bioassay
- Daphnia Magna (mg/l) LC50 : 12  
NOEL : 1,5  
48 hour static renewal bioassay
- Ceriodaphnia (mg/l) LC50 : 1,5  
NOEL : 0,63  
48 hour static renewal bioassay

**Persistence and degradability** This product, being inorganic and in its highest oxidation state, has no COD,BOD or TOC.

**Summary** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic 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 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 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.)	1805
Correct shipping name	Phosphoric acid, liquid.
<b>Land transport</b>	
- Transport hazard label	8 Corrosive
- RID/ADR classification	8
- Packaging group	III
<b>Maritime transport</b>	
- 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.
<b>Air transport</b>	
- Transport hazard label	8 Corrosive
- ICAO/IATA classification	8



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**15 REGULATORY INFORMATION**

EEC labelling information

- Symbol(s)



Corrosive:C



Dangerous for the environment: N

- Contains

Phosphoric Acid

- R Phrase(s)

R 34 :Causes burns.

R 50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- 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).

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.

**NSF Registered and/or meets  
USDA (according to 1998  
guidelines):**

Registration No. – 140901

Category Code(s):

G5 Cooling and retort water treatment products

G7 Boiler, steam line treatment products – nonfood contact

**16 OTHER INFORMATION**

**Nature of revision**

Correction in Section: 6,10,11,15

**Based on EC Directive /  
Regulations**

1999/45/EC

2001/58/EC

2001/118/EC

2004/73/EC

2006/8/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 34 : Causes burns.

R 50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.