



## SAFETY DATA SHEET

# FOODPRO FBC9880

## 1 IDENTIFICATION OF PREPARATION AND OF COMPANY

### 1.1 Identification of the substance or preparation

Product : FOODPRO FBC9880

### 1.2 Use of substance/preparation

Carbamate based biocide for sugar

### 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 Harmful if swallowed.  
May cause sensitisation by skin contact.
- Environmental hazards Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Chemical description

Aqueous alkaline solution of carbamates

Hazardous component(s)	EINECS/ELINCS #	CAS #	Conc.
Sodium dimethyldithiocarbamate N, R50/53	204-876-7	128-04-1	2.5 - 25 %
Sodium ethylenebis dithiocarbamate Xn, N, R22-37-43-50/53	205-547-0	142-59-6	2.5 - 20 %
1,2-Diaminoethane (Ethylene diamine) C, 10-21/22-34-42/43	203-468-6	107-15-3	0.1 - 1 %
Ethylene thiourea (imidazolidine-2-thione) T, R61(R2)-22	202-506-9	96-45-7	0.1 - 0.5 %
Dimethylamine F+, Xn, R12-20/22-34	204-697-4	124-40-3	0.1 - 1 %



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### 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

<b>Skin contact</b>	Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists, seek medical advice.
<b>Eye contact</b>	Flush immediately with plenty of running water. If irritation develops, seek medical attention.
<b>Inhalation</b>	Remove victim to fresh air and allow to rest. Seek medical attention.
<b>Ingestion</b>	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

<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 carbon, nitrogen, and sulphur 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. Remove small spills with plenty of water. Water contaminated with this product may be discharged in compliance with local regulations.

## 7 HANDLING AND STORAGE

<b>7.1 Handling</b>	Clean spill immediately. Wash contaminated skin promptly. Alkaline. Do not mix with acidic material.
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**7.2 Storage** Store containers closed when not in use.  
Store in a well ventilated place.  
Store at ambient temperature. Protect from freezing.  
Keep away from strong acids and oxidizers.

**7.3 Specific uses)** Only for professional and industrial users

**Maximum storage stability (days)** 270

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limit values

- VME/VLE (INRS) 1,2-Diaminoethane (Ethylene diamine) : 10 ppm 25 mg/m<sup>3</sup> (VME) - 15 ppm 35 mg/m<sup>3</sup> (VLE)  
Dimethylamine : 1 ppm, 1.9 mg/m<sup>3</sup> (VLE) - 2 ppm, 3.8 mg/m<sup>3</sup> (VLE) - Risk of allergy, Risk of percutaneous penetration

### 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 Neoprene gloves (Protection against unintentional short-term contact)  
CEN : EN 374-1/2/3; EN 420

- Eye protection Splash proof chemical goggles.  
CEN : EN 166

- Skin protection Protective clothing.  
CEN : EN 340; EN 369; EN 465

- 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 Yellow to green  
Odour Strong

### 9.2 Important health, safety and environmental info

pH (concentrated product) 11,5  
Flash point (Pensky/Martens) (°C) >100  
Density at 20°C (kg/m<sup>3</sup>) 1176  
Solubility in water (% weight) Completely soluble  
Viscosity at 20°C (mPas) 10  
Evaporation rate (ether=1) <1  
Vapour pressure 18 mm Hg (21°C)

### 9.3 Other information

Melting point, (°C) 0



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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, nitrogen, and sulphur evolved in fire. |

## 11 TOXICOLOGICAL INFORMATION

### Mammalian Test Data

- |                               |        |
|-------------------------------|--------|
| - Oral LD50, rat (mg/kg)      | 1400   |
| - Dermal LD50, rabbit (mg/kg) | > 2000 |

### Exposure hazard

- |                |   |
|----------------|---|
| - Inhalation   | Prolonged or repeated exposure may cause transient irritation.  |
| - Skin contact | May cause sensitisation.  |
| - Eye contact  | Prolonged or repeated contact may cause transient irritation.   |
| - Ingestion    | May cause slight gastrointestinal irritation with possible nausea, vomiting, abdominal discomfort and diarrhea. |

## 12 ECOLOGICAL INFORMATION

### Ecotoxicity

- |                           |  |
|---------------------------|--|
| - Rainbow Trout (mg/l)    | LC50 : 0,27<br>NOEL : 0,135<br>96 hour static acute bioassay |
| - Fathead minnow (mg/l)   | LC100 : 3<br>NOEL : 0,2<br>96 hour static screen             |
| - Bluegill sunfish (mg/l) | LC50 : 0,24<br>NOEL : 0,1<br>96 hour static acute bioassay   |
| - Daphnia Magna (mg/l)    | LC50 : 0,21<br>NOEL : 0,1<br>48 hour static acute bioassay   |

### Persistence and degradability

- |   |  |
|---|--|
| - COD (mgO2/g)                                  | 410  |
| - BOD 5 (mgO2/g)                                | 16   |
| - BOD 28 (mgO2/g)                               | 21   |
| - Closed Bottle Test (% Degradation in 28 days) | 13<br>OECD 301D  |
| - Zahn-Wellens Test (% Degradation in 28 days)  | 0<br>OECD 302B   |
| - TOC (mg C/g)                                  | 60   |
| - Biodegradation (%)                            | Testing has shown product not to be readily biodegradable. |



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**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 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.)** 3082

**Correct shipping name** Environmentally hazardous substance, liquid, n.o.s.

**- Contains** Sodium dimethyldithiocarbamate  
Sodium ethylenebis dithiocarbamate, mixture

**Land transport**

- Transport hazard label 9  
Miscellaneous dangerous substances  
Environmentally hazardous substance

- RID/ADR classification 9

- Packaging group III

- Tunnel restriction code (E)

**Maritime transport**

- Transport hazard label 9+N  
Miscellaneous dangerous goods  
Marine pollutant.

- IMO-IMDG class 9

- Packaging group III

- EmS no. F-A, S-F

- 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.



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### Air transport

- Transport hazard label 9  
Miscellaneous dangerous goods  
Environmentally hazardous substance
- ICAO/IATA classification 9

## 15 REGULATORY INFORMATION

### EEC labelling information

#### - Symbol(s)



Harmful:Xn



Dangerous for the environment: N

#### - Contains

Sodium ethylenebis dithiocarbamate (CAS 142-59-6) (176,4 g/l)  
Sodium dimethyldithiocarbamate (CAS 128-04-1) (176,4 g/l)  
1,2-Diaminoethane (Ethylene diamine)

#### - R Phrase(s)

R 22 :Harmful if swallowed.  
R 43 :May cause sensitisation by skin contact.  
R 50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### - S Phrase(s)

S 24 :Avoid contact with skin.  
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 60 :This material and its container must be disposed of as hazardous waste.  
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° 49

## 16 OTHER INFORMATION

### Nature of revision

Correction in Section: 6,13,14

### Based on EC Directive / Regulations

1999/45/EC  
2001/58/EC  
2001/118/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.



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

R 10 : Flammable.  
R 12 : Extremely flammable.  
R 22 : Harmful if swallowed.  
R 34 : Causes burns.  
R 37 : Irritating to respiratory system.  
R 43 : May cause sensitisation by skin contact.  
R 61 : May cause harm to the unborn child.  
R 20/22 : Harmful by inhalation and if swallowed.  
R 21/22 : Harmful in contact with skin and if swallowed.  
R 42/43 : May cause sensitisation by inhalation and skin contact.  
R 50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.