



SAFETY DATA SHEET

STEAMATE NA0880

1 IDENTIFICATION OF PREPARATION AND OF COMPANY

1.1 Identification of the substance or preparation

Product : STEAMATE NA0880

1.2 Use of substance/preparation

Boiler / condensate 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.
Harmful by inhalation, in contact with skin and if swallowed.
May cause sensitisation by skin contact.
- Environmental hazards The product is not classified as dangerous for the environment.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description

Neutralising amine

Hazardous component(s)	EINECS/ELINCS #	CAS #	Conc.
Ethanolamine C, R20/21/22-34	205-483-3	141-43-5	> 25 %
Dimethylaminopropylamine (DMAPA) C, R10-22-34-43	203-680-9	109-55-7	10 - 25 %
Diethanolamine Xn, R22-38-41-48/22	203-868-0	111-42-2	0.1 - 1 %

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	Remove contaminated clothing. Wash immediately with plenty of soap and water. Seek medical attention.
Eye contact	Flush immediately with plenty of running water. Continue rinsing for at least 10 minutes. Keep eyelids apart. Seek medical attention.
Inhalation	Remove victim to fresh air and allow to rest. Seek medical attention.
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).
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 nitrogen 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 Hazardous Waste Regulations. Flush area with water. Spread sand/grit.

7 HANDLING AND STORAGE

7.1 Handling	Avoid contact with skin and eyes. Alkaline. Do not mix with acidic material.
7.2 Storage	Store in cool, well ventilated area. Store away from oxidisers. Store containers closed when not in use.
7.3 Specific uses)	Only for professional and industrial users



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Maximum storage stability (days) 720

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

- VME/VLE (INRS) Ethanolamine : 3 ppm 8 mg/m³ (VME) - néant (VLE)
Diethanolamine : 3 ppm 15 mg/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: A2-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 (concentrated product) 12,7
pH in aqueous solution 11,7 (5%)
Flash point (Pensky/Martens) (°C) > 100
Density at 20°C (kg/m³) 1003
Solubility in water (% weight) Completely soluble
Viscosity at 20°C (mPas) 14

9.3 Other information

Melting point, (°C) < -34

10 STABILITY AND REACTIVITY

10.1 Conditions to avoid No special requirement.
10.2 Materials to avoid Avoid contact with strong acids and oxidisers.
10.3 Hazardous decomposition products Oxides of carbon and nitrogen evolved in fire.



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11 TOXICOLOGICAL INFORMATION

Mammalian Test Data

- Oral LD50, rat (mg/kg) > 3000 (estimated value)
- Dermal LD50, rabbit (mg/kg) 1300 (estimated value)

Exposure hazard

- Inhalation Irritating to respiratory system.
May cause coughing, breathing difficulties, or shortness of breath.
- Skin contact Causes burns.
- Eye contact May cause sensitisation.
Causes burns.
- Ingestion May cause burns in mouth, throat and/or stomach.

12 ECOLOGICAL INFORMATION

Ecotoxicity

- Fathead minnow (mg/l) LC50 : 440
NOEL : 260
(Calculated data)
96 hour Acute Toxicity
- Daphnia Magna (mg/l) LC50 : 160
NOEL : 49
(Calculated data)
48 hour Acute Toxicity

Persistence and degradability

- COD (mgO₂/g) 768 (calculated data)
- BOD 5 (mgO₂/g) 252 (calculated data)
- BOD 28 (mgO₂/g) 252 (calculated data)
- Closed Bottle Test (% Degradation in 28 days) 30 (calculated data)
- Zahn-Wellens Test (% Degradation in 28 days) 65 (calculated data)
- TOC (mg C/g) 266 (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 Hazardous 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.



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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.) 2735

Correct shipping name Amines, liquid, corrosive, n.o.s.

- Contains Dimethylaminopropylamine (DMAPA) mixture
Ethanolamine mixture

Land transport

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

Maritime transport

- Transport hazard label 8
Corrosive
- IMO-IMDG class 8
- Packaging group II
- 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



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15 REGULATORY INFORMATION

EEC labelling information

- Symbol(s)



Corrosive:C

- Contains

Dimethylaminopropylamine (DMAPA)
Ethanolamine

- R Phrase(s)

R 20/21/22 :Harmful by inhalation, in contact with skin and if swallowed.
R 34 :Causes burns.
R 43 :May cause sensitisation by skin contact.

- 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 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.

- France

Tableau des maladies professionnelles n° 49

16 OTHER INFORMATION

Nature of revision

Correction in Section: 1,2,3,7,9,15

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 10 : Flammable.
R 22 : Harmful if swallowed.
R 34 : Causes burns.
R 38 : Irritating to skin.
R 41 : Risk of serious damage to eyes.
R 43 : May cause sensitisation by skin contact.
R 20/21/22 : Harmful by inhalation, in contact with skin and if swallowed.
R 48/22 : Harmful : danger of serious damage to health by prolonged exposure if swallowed.
R 37 : Irritating to respiratory system.