



SAFETY DATA SHEET

CORTROL OS5310

1 IDENTIFICATION OF PREPARATION AND OF COMPANY

1.1 Identification of the substance or preparation

Product : CORTROL OS5310

1.2 Use of substance/preparation

Organic oxygen scavenger

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 by inhalation and in contact with skin.
Irritating to eyes, respiratory system and skin.
- Environmental hazards The product is not classified as dangerous for the environment.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description

Aqueous solution of amines

Hazardous component(s)

N,N Diethylhydroxylamine

Xn, R10-20/21-36/37/38

EINECS/ELINCS #

223-055-4

CAS #

3710-84-7

Conc.

>= 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.

4 FIRST AID MEASURES

Skin contact

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



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Eye contact	Flush immediately with plenty of running water. Keep eyelids apart. If irritation persists, seek medical advice.
Inhalation	Remove patient to fresh air, allow to rest and keep warm. Seek medical attention.
Ingestion	Rinse mouth with water. Do NOT induce vomiting!

5 FIRE-FIGHTING MEASURES

Extinguishing Media	
- Suitable	Water, foam, carbon dioxide.
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.

7 HANDLING AND STORAGE

7.1 Handling	Do not breathe vapours. Avoid contact with skin and eyes.
7.2 Storage	Keep container tightly closed. Store in cool, well ventilated area.
7.3 Specific uses	Only for professional and industrial users
Maximum storage stability (days)	270

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls	
- Recommended engineering controls	Ensure good ventilation.
- 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



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Exposure controls

- Skin protection Protective clothing.
CEN : EN 340; EN 369; EN 465
- 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 light yellow
Odour	Amine

9.2 Important health, safety and environmental info

pH (concentrated product)	11.3
pH in aqueous solution	10,6 (5%)
Boiling point/range (°C)	> 100
Flash point (Pensky/Martens) (°C)	61,6
Density at 20°C (kg/m ³)	998
Solubility in water (% weight)	Completely soluble
Viscosity at 20°C (mPas)	16
Vapour density (air=1)	>1

9.3 Other information

Melting point, (°C)	-15
Pour point, (°C)	-12

10 STABILITY AND REACTIVITY

10.1 Conditions to avoid	Keep away from heat.
10.2 Materials to avoid	Avoid contact with strong acids. Avoid contact with strong oxidisers.
10.3 Hazardous decomposition products	Oxides of carbon and nitrogen 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)
- Skin irritation, rat	Not irritating.
- Eye irritation, rabbit	Irritating (Based on test with similar products)



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Exposure hazard

- Inhalation Irritating to respiratory system.
May cause coughing, breathing difficulties, or shortness of breath.
- Skin contact Causes irritation.
- Eye contact Causes irritation.
- Ingestion May cause nausea, dizziness and/or vomiting.
May cause stomach pain, cramps and/or diarrhoea.

12 ECOLOGICAL INFORMATION

Ecotoxicity

- Fathead minnow (mg/l) LC50 : 170
NOEL : 94
96 hour Acute Toxicity
- Daphnia Magna (mg/l) LC50 : 88
48 hour Acute Toxicity

Persistence and degradability

- COD (mgO₂/g) 684 (calculated data)
- BOD 5 (mgO₂/g) 2 (calculated data)
- BOD 28 (mgO₂/g) 180 (calculated data)
- Closed Bottle Test (% Degradation in 28 days) 31 (calculated data)
- Zahn-Wellens Test (% Degradation in 28 days) 14 (calculated data)
- TOC (mg C/g) 146 (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 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.) Not applicable.



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Correct shipping name	Not applicable.
Land transport - RID/ADR classification	Not classified under this legislation.
Maritime transport - IMO-IMDG class	Not classified under this legislation
Air transport - ICAO/IATA classification	Not classified under this legislation

15 REGULATORY INFORMATION

EEC labelling information

- Symbol(s)



Harmful:Xn

- Contains	N,N, Diethylhydroxylamine
- R Phrase(s)	R 20/21 :Harmful by inhalation and in contact with skin. R 36/37/38 :Irritating to eyes, respiratory system and skin.
- S Phrase(s)	S 16 :Keep away from sources of ignition - No smoking. 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.
- 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: 1

Based on EC Directive / Regulations 1999/45/EC
2001/58/EC
2001/118/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 20/21 : Harmful by inhalation and in contact with skin.
R 36/37/38 : Irritating to eyes, respiratory system and skin.