



SAFETY DATA SHEET

KLARAIID CDP1325

1 IDENTIFICATION OF PREPARATION AND OF COMPANY

1.1 Identification of the substance or preparation

Product : KLARAIID CDP1325

1.2 Use of substance/preparation

Surface and waste water coagulation

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

Inorganic and Organic Polymer Blend

Hazardous component(s)	EINECS/ELINCS #	CAS #	Conc.
1,2-Ethanediamine, polymer with (chloromethyl)oxirane and N-methylmethanamine R52/53	-	42751-79-1	< 25 %
Aluminium sulphate Xi, R37/38-41	233-135-0	10043-01-3	> 20 %

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 Irritating to respiratory system and skin.
Risk of serious damage to eyes.
- Environmental hazards The product is not classified as dangerous for the environment.



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4 FIRST AID MEASURES

Skin contact	Wash immediately with plenty of water. If irritation persists, seek medical advice.
Eye contact	Flush immediately with plenty of running water. Keep eyelids apart. Continue rinsing for at least 10 minutes. Seek medical attention.
Inhalation	Remove victim to fresh air and allow to rest.
Ingestion	Rinse mouth with water.

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.
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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)
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Special exposure hazards	Oxides of carbon, nitrogen and sulphur evolved in fire.
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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.
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7 HANDLING AND STORAGE

7.1 Handling	Acidic. Do not mix with alkaline material.
7.2 Storage	Store containers closed when not in use.

Maximum storage stability (days) 20

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

- VME/VLE (INRS)	Aluminium soluble salts : 2 mg/m ³ (VME) - néant (VLE)
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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: P2
CEN : EN 140; EN 143; EN 149
- 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.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Appearance	Liquid
Colour	Yellow
Odour	Mild

9.2 Important health, safety and environmental info

pH (concentrated product)	3,0
pH in aqueous solution	3,8 (5%)
Flash point (Pensky/Martens) (°C)	> 100
Density at 20°C (kg/m ³)	1303
Solubility in water (% weight)	Completely soluble
Viscosity at 20°C (mPas)	60
Relative vapour density (air=1)	<1
Evaporation rate (ether=1)	<1

9.3 Other information

Melting point, (°C)	-12
Pour point, (°C)	-10

10 STABILITY AND REACTIVITY

- 10.1 Conditions to avoid** No special requirement.
- 10.2 Materials to avoid** Avoid contact with strong oxidisers.
- 10.3 Hazardous decomposition products** Oxides of carbon, nitrogen and sulphur.

11 TOXICOLOGICAL INFORMATION

Mammalian Test Data

- Oral LD50, rat (mg/kg) > 2000 (estimated value)
- Dermal LD50, rabbit (mg/kg) > 2000 (estimated value)



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Exposure hazard

- Inhalation Irritating to respiratory system.
- Skin contact Causes irritation.
- Eye contact Risk of serious damage to eyes.
- Ingestion May cause slight gastrointestinal irritation.

12 ECOLOGICAL INFORMATION

Ecotoxicity

- Fathead minnow (mg/l) LC50 : 8.5
NOEL : 4.9
(Calculated data)
96 hour Acute Toxicity
- Daphnia Magna (mg/l) LC50 : 10
NOEL : 4.6
(Calculated data)
48 hour Acute Toxicity

Persistence and degradability

- COD (mgO₂/g) 20 (calculated data)
- BOD 5 (mgO₂/g) 0 (calculated data)
- BOD 28 (mgO₂/g) 0 (calculated data)
- Closed Bottle Test (% Degradation in 28 days) (calculated data)
- Zahn-Wellens Test (% Degradation in 28 days) 1 (calculated data)
- TOC (mg C/g) 10 (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 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.



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14 TRANSPORT INFORMATION

Substance id.no. (SIN) (UN No.) 3264

Correct shipping name Corrosive liquid, acidic, inorganic, n.o.s.

- Contains Aluminium sulphate mixture

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 80GC1-III

15 REGULATORY INFORMATION

EEC labelling information

- Symbol(s) Irritant:Xi

- R Phrase(s) R 37/38 :Irritating to respiratory system and skin.
R 41 :Risk of serious damage to eyes.

- 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.

- 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: 3,4,8,9



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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.

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

R 41 : Risk of serious damage to eyes.
R 37/38 : Irritating to respiratory system and skin.
R 52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.