

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Mixture
Product name	: Coppercoat Boatcoat Hardener
Product code	: BC200H
Product group	: End product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	: Industrial use, Professional use
Use of the substance/mixture	: Amine hardener for epoxy base.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Aquarius Marine Coatings Ltd
Unit 10, St Patricks Industrial Estate
Shillingstone, Dorset, DT2 0AE
Great Britain
T +44 (0)1258 861059
info@coppercoat.com
www.coppercoat.com

Distributor

Aquarius Marine Coatings Ltd
Unit 10, St Patricks Industrial Estate
Shillingstone, Dorset, DT2 0AE
Great Britain
T +44 (0)1258 861059
info@coppercoat.com
www.coppercoat.com

1.4. Emergency telephone number

Emergency number	: 01258 861059 Monday - Friday 09:00 - 17:00
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

Signal word (CLP)

: Danger

Contains

: Linseed oil, polymer w/ bis-A, bis-A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether, pentaethylenehexamine

Hazard statements (CLP)

: H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP)	: P264 - Wash Skin or affected areas thoroughly after handling. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER, a doctor. P321 - Specific treatment (see supplemental first aid instruction on this label).
EUH-statements	: EUH208 - Contains 2,2'-iminodiethylamine (111-40-0) (917), PENTAETHYLENEHEXAMINE (4067-16-7) (923), Amines, polyethylenepolytetraethylenepentamine fraction (90640-66-7) (22669). May produce an allergic reaction.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Linseed oil, polymer w/ bis-A, bis-A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether, pentaethylenehexamine	CAS-No.: 68915-81-1	$\geq 15 - < 30$	Skin Irrit. 2, H315 Eye Dam. 1, H318
Propan-2-ol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	$\geq 5 - < 10$	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
1-METHOXY-2-PROPANOL	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3	$\geq 5 - < 10$	Flam. Liq. 3, H226 STOT SE 3, H336
2,2'-iminodiethylamine substance with national workplace exposure limit(s) (GB)	CAS-No.: 111-40-0 EC-No.: 203-865-4 EC Index-No.: 612-058-00-X REACH-no: 01-2119473793-27	< 1	Acute Tox. 4 (Oral), H302 (ATE=1553 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1045 mg/kg bodyweight) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.07 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
PENTAETHYLENEHEXAMINE	CAS-No.: 4067-16-7 EC-No.: 223-775-9 EC Index-No.: 612-064-00-2	≥ 0.1 – < 1	Acute Tox. 4 (Oral), H302 (ATE=1600 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1465.4 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Amines, polyethylenepolytetraethylenepentamine fraction	CAS-No.: 90640-66-7 EC-No.: 292-587-7 REACH-no: 01-2119487290-37	≥ 0.1 – < 1	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
First-aid measures after eye contact	: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Drink plenty of water. Go into open air and ventilate suspected area. If swallowed, seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Treat symptomatically.
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4.3. Indication of any immediate medical attention and special treatment needed

No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry powder. Water spray. Water fog.
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5.2. Special hazards arising from the substance or mixture

Fire hazard	: Thermal decomposition can lead to the release of irritating gases and vapours.
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5.3. Advice for firefighters

Firefighting instructions	: Do not use water jet to extinguish. Control run-off water by containing and keeping it out of sewers and watercourses.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not allow to enter sewers, surface or groundwater.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb remaining liquid with sand or inert absorbent and remove to safe place. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe vapours. Do not handle until all safety precautions have been read and understood. Keep only in original container.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Store in a well-ventilated place. Keep cool. Store in a dry place. Store in a closed container.

7.3. Specific end use(s)

1.2. Relevant identified uses of the substance or mixture and uses advised against.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Propan-2-ol (67-63-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	888 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	500 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	26 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	89 mg/m ³

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Propan-2-ol (67-63-0)	
Long-term - systemic effects, dermal	319 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	140.9 mg/l
PNEC aqua (marine water)	140.9 mg/l
PNEC aqua (intermittent, freshwater)	140.9 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	552 mg/kg dwt
PNEC sediment (marine water)	552 mg/kg dwt
PNEC (Soil)	
PNEC soil	28 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	160 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	2251 mg/l
1-METHOXY-2-PROPANOL (107-98-2)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	553.5 mg/m ³
Acute - local effects, inhalation	553.5 mg/m ³
Long-term - systemic effects, dermal	183 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	369 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	33 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	43.9 mg/m ³
Long-term - systemic effects, dermal	78 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	10 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC aqua (intermittent, freshwater)	100 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	52.3 mg/kg dwt
PNEC sediment (marine water)	5.2 mg/kg dwt
PNEC (Soil)	
PNEC soil	4.59 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
2,2'-iminodiethylamine (111-40-0)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	92.1 mg/m ³

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2,2'-iminodiethylamine (111-40-0)	
Acute - local effects, inhalation	2.6 mg/m ³
Long-term - systemic effects, dermal	11.4 mg/kg bodyweight/day
Long-term - local effects, dermal	1.1 mg/cm ²
Long-term - systemic effects, inhalation	15.4 mg/m ³
Long-term - local effects, inhalation	0.87 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	4.88 mg/kg bodyweight/day
Acute - systemic effects, inhalation	27.5 mg/m ³
Long-term - systemic effects, inhalation	4.6 mg/m ³
Long-term - systemic effects, dermal	4.88 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.56 mg/l
PNEC aqua (marine water)	0.056 mg/l
PNEC aqua (intermittent, freshwater)	0.32 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1072 mg/kg dwt
PNEC sediment (marine water)	107.2 mg/kg dwt
PNEC (Soil)	
PNEC soil	7.97 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	6 mg/l
PENTAETHYLENHEXAMINE (4067-16-7)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	8550 mg/m ³
Long-term - systemic effects, dermal	0.91 mg/kg bw/day
Long-term - local effects, dermal	44 µg/cm ²
Long-term - systemic effects, inhalation	1.59 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	13 mg/kg bw/day
Acute - systemic effects, inhalation	2542 mg/m ³
Acute - systemic effects, oral	32 mg/m ³
Acute - local effects, dermal	1.59 mg/cm ²
Long-term - systemic effects, oral	0.65 mg/kg bw/day
Long-term - systemic effects, inhalation	0.46 mg/m ³
Long-term - systemic effects, dermal	0.4 mg/kg bw/day
Long-term - local effects, dermal	0.68 mg/cm ²
PNEC (Water)	
PNEC aqua (freshwater)	2.5 µg/L
PNEC aqua (marine water)	2.5 µg/L

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PENTAETHYLENEHEXAMINE (4067-16-7)	
PNEC (Sediment)	
PNEC sediment (freshwater)	0.22 mg/kg wet weight
PNEC sediment (marine water)	0.14 mg/kg wet weight
PNEC (Soil)	
PNEC soil	0.18 mg/kg wet weight
PNEC (STP)	
PNEC sewage treatment plant	1.64 mg/l
Amines, polyethylenepolytetraethylenepentamine fraction (90640-66-7)	
DNEL/DMEL (Workers)	
Long-term - local effects, dermal	0.25 mg/cm ²
Long-term - systemic effects, inhalation	0.14 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.21 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.14 mg/m ³
Long-term - local effects, dermal	20.8 µg/cm ²
PNEC (Water)	
PNEC aqua (freshwater)	0.01 mg/l
PNEC aqua (marine water)	0.001 mg/l
PNEC aqua (intermittent, freshwater)	0.068 mg/l
PNEC aqua (intermittent, marine water)	0.0068 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3198 mg/kg dwt
PNEC sediment (marine water)	0.3198 mg/kg dwt
PNEC (Soil)	
PNEC soil	2.5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	4.6 mg/l
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	0.6 mg/kg bodyweight/day
Acute - systemic effects, inhalation	2.1 mg/m ³
Long-term - systemic effects, dermal	0.15 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.53 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	0.075 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0.13 mg/m ³
Long-term - systemic effects,oral	0.075 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.13 mg/m ³

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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)	
Long-term - systemic effects, dermal	0.075 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.046 mg/l
PNEC aqua (marine water)	0.0046 mg/l
PNEC aqua (intermittent, freshwater)	0.46 mg/l
PNEC aqua (intermittent, marine water)	0.046 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.2621 mg/kg dwt
PNEC sediment (marine water)	0.026211 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0254 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.2 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Dustproof clothing. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear eye protection

8.2.2.2. Skin protection

Skin and body protection:

Avoid contact with skin

Hand protection:

Standard EN 374 - Protective gloves against chemicals.

Other skin protection

Materials for protective clothing:

Keep work clothing separately

8.2.2.3. Respiratory protection

Respiratory protection:

Wear suitable respiratory equipment in case of insufficient ventilation

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: orange.
Appearance	: Liquid.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

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10.6. Hazardous decomposition products

Not relevant.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Propan-2-ol (67-63-0)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
1-METHOXY-2-PROPANOL (107-98-2)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
2,2'-iminodiethylamine (111-40-0)	
LD50 oral rat	1553 mg/kg Male rat, OECD 401
LD50 dermal rabbit	1045 mg/kg
LC50 Inhalation - Rat	≤ mg/l
LC50 Inhalation - Rat (Dust/Mist)	0.07 mg/l/4h OECD 403
PENTAETHYLENEHEXAMINE (4067-16-7)	
LD50 oral rat	1600 mg/kg
LD50 dermal rabbit	1465.4 mg/kg OECD 402
Amines, polyethylenepolytetraethylenepentamine fraction (90640-66-7)	
LD50 oral rat	1716.2 mg/kg OECD 401
LD50 dermal rabbit	1260 mg/kg OECD 402
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Propan-2-ol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
1-METHOXY-2-PROPANOL (107-98-2)	
STOT-single exposure	May cause drowsiness or dizziness.
2,2'-iminodiethylamine (111-40-0)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
1-METHOXY-2-PROPANOL (107-98-2)	
LOAEL (oral, rat, 90 days)	2757 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)

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1-METHOXY-2-PROPANOL (107-98-2)	
NOAEL (oral, rat, 90 days)	919 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
2,2'-iminodiethylamine (111-40-0)	
LOAEL (oral, rat, 90 days)	530 – 620 mg/kg bodyweight Animal: rat, Guideline: other:
NOAEL (oral, rat, 90 days)	70 – 80 mg/kg bodyweight Animal: rat, Guideline: other:
Amines, polyethylenepolytetraethylenepentamine fraction (90640-66-7)	
LOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard : Not classified

Propan-2-ol (67-63-0)	
Viscosity, kinematic	3.165 mm²/s
1-METHOXY-2-PROPANOL (107-98-2)	
Viscosity, kinematic	1.848 mm²/s
2,2'-iminodiethylamine (111-40-0)	
Viscosity, kinematic	5.268 mm²/s

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.
Not rapidly degradable

Propan-2-ol (67-63-0)	
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l
1-METHOXY-2-PROPANOL (107-98-2)	
EC50 - Other aquatic organisms [1]	2954 mg/l Test organisms (species): other aquatic crustacea:
2,2'-iminodiethylamine (111-40-0)	
LC50 - Fish [1]	430 mg/l Test species - Poecilia reticulata
EC50 - Crustacea [1]	64.6 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	16 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1164 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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2,2'-iminodiethylamine (111-40-0)	
EC50 72h - Algae [2]	187 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	11.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	5.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 10 mg/l Test organisms (species): Gasterosteus aculeatus Duration: '28 d'
NOEC chronic crustacea	5.6 Test species - Daphnia magna - 21 day
NOEC chronic algae	10 Test species - Pseudokirchneriella subcapitata - OECD 201
Amines, polyethylenepolytetraethylenepentamine fraction (90640-66-7)	
LC50 - Fish [1]	0.42 g/l Test organisms (species): Poecilia reticulata
EC50 - Crustacea [1]	24.1 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	6.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	2.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Must follow special treatment according to local regulation.

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HP Code

: HP3 - "Flammable:"
– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / ADN / RID

ADR	IMDG	ADN	RID
14.1. UN number or ID number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
EUH208	Contains 2,2'-iminodiethylamine (111-40-0) (917), PENTAETHYLENEHEXAMINE (4067-16-7) (923), Amines, polyethylenepolytetraethylenepentamine fraction (90640-66-7) (22669). May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.

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Full text of H- and EUH-statements:	
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.