

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 6 Feb 2024

Print date: 6 Feb 2024

Version: 2.1

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EUROPOX 0220 Komponente A

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

* 1.1. Product identifier

Trade name/designation:

EUROPOX 0220 Komponente A

Article No.:

400220XXXXEAXXX

UFI:

N3KJ-YX0D-HTCR-E8T0

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

Use of the substance/mixture:

Binder

Relevant identified uses:

Sector of uses [SU]

SU 19: Building and construction work

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Euroteam Bauchemie GmbH

An der Mühle 1
15345 Altlandsberg
Germany

Telephone: +49 (0) 33438 14790

Telefax: +49 (0) 33438 147929

E-mail: info@euroteam-bauchemie.de

Website: www.euroteam-bauchemie.de

E-mail (competent person): info@euroteam-bauchemie.de

* 1.4. Emergency telephone number

Labor, Montag - Donnerstag 7:00 - 15:00; Freitag 7:00 - 12:00 +49 (0) 33438 1479 25 (Only available during office hours.)

SECTION 2: Hazards identification

* 2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	Calculation method.
Acute toxicity (inhalative) (Acute Tox. 4)	H332: Harmful if inhaled.	Calculation method.
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

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* 2.2. Label elements

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

Hazard pictograms:



GHS05
Corrosion



GHS07
Exclamation mark

Signal word: Danger

Hazard components for labelling:

2,2'-iminodi(ethylamine); Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N-(2-aminoethyl)-1,2-ethanediamine, (chloromethyl)oxirane, alpha-hydro-omega-hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1) oxiranylmethyl ether, and methyloxirane polymer with oxirane 2-aminopropyl methyl ether; 1-methyl-2-pyrrolidone; 2-(2-butoxyethoxy)ethanol

Hazard statements for health hazards

H318	Causes serious eye damage.
H332	Harmful if inhaled.

Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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Supplemental hazard information

EUH208	Contains 2,2'-iminodi(ethylamine). May produce an allergic reaction.
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Precautionary statements Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

Precautionary statements Response

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/... if you feel unwell.

Precautionary statements Disposal

P501	Dispose of contents/container to Appropriate disposal.
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Special rules for supplemental label elements for certain mixtures:

66,6 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

66,6 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

* 2.3. Other hazards

Adverse human health effects and symptoms:

The substance/mixture does not contain any constituents that are required under REACH Article 57(f) or the delegated

Commission Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 have endocrine disrupting properties in quantities equal to or greater than 0,1 %.

Adverse environmental effects:

This substance/mixture does not contain components in concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 455946-46-0	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N-(2-aminoethyl)-1,2-ethanediamine, (chloromethyl)oxirane, alpha-hydro-omega-hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1) oxiranylmethyl ether, and methyloxirane polymer with oxirane 2-aminopropyl methyl ether Eye Dam. 1 (H318) Danger	11 - < 20 weight-%
CAS No.: 111-40-0 EC No.: 203-865-4 REACH No.: 01-2119473793-27-XXXX	2,2'-iminodi(ethylamine) Acute Tox. 2 (H330), Acute Tox. 4 (H302, H312), STOT SE 3 (H335), Skin Corr. 1B (H314), Skin Sens. 1 (H317) Danger	0 - < 0.27 weight-%
CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8 REACH No.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol Eye Irrit. 2 (H319) Warning	0 - < 0.11 weight-%
CAS No.: 872-50-4 EC No.: 212-828-1 REACH No.: 01-2119472430-46	1-methyl-2-pyrrolidone <i>Candidate List of Substances of Very High Concern for Authorisation!</i> Eye Irrit. 2 (H319), Repr. 1B (H360), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger	0 - ≤ 0.095 weight-%
CAS No.: 68439-50-9 EC No.: 500-213-3	Alcohols, C12-14, ethoxylated Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411) Warning M-factor (acute): 10	0 - ≤ 0.014 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

* 4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention.

In case of skin contact:

If skin irritation or rash occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunken in little sips (dilution effect).

Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

Serious eye damage/eye irritation

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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

* 5.1. Extinguishing media

Suitable extinguishing media:

, Foam,, Dry extinguishing powder

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8). Avoid contact with skin, eyes and clothes.

Provide adequate ventilation as well as local exhaust at critical locations.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Protect against: Frost

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7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
DFG (DE) from 1 Jul 2019	Albawhite CAS No.: 7727-43-7 EC No.: 231-784-4	① 0.3 mg/m ³ ② 2.4 mg/m ³ ⑤ (alveolengängige Fraktion)
DFG (DE)	Albawhite CAS No.: 7727-43-7 EC No.: 231-784-4	① 4 mg/m ³ ⑤ (einatembare Fraktion)
IOELV (EU)	chromium (III) oxide CAS No.: 1308-38-9 EC No.: 215-160-9	① 2 mg/m ³ ⑤ (metal and compounds, inorganic, insoluble)
TRGS 900 (DE) from 23 Jun 2022	chromium (III) oxide CAS No.: 1308-38-9 EC No.: 215-160-9	① 2 mg/m ³ ② 2 mg/m ³ ⑤ (berechnet als Cr, einatembare Fraktion) EU,10
TRGS 900 (DE) from 1 Mar 2011	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67 mg/m ³) ② 15 ppm (100.5 mg/m ³) ⑤ (Aerosol und Dampf) EU, DFG, Y, 11
IOELV (EU)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m ³) ② 15 ppm (101.2 mg/m ³)
BOELV (EU) from 5 Apr 2022	1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	① 10 ppm (40 mg/m ³) ② 20 ppm (80 mg/m ³) ⑤ (may be absorbed through the skin)
TRGS 900 (DE)	1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	① 20 ppm (82 mg/m ³) ② 40 ppm (164 mg/m ³) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) EU, DFG, AGS, H, Y, 11, 19, 32
TRGS 900 (DE) from 2 Mar 2015	lithium chloride CAS No.: 7447-41-8 EC No.: 231-212-3	① 0.2 mg/m ³ ② 0.2 mg/m ³ ⑤ (einatembare Fraktion) Y, 10, DFG

8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
TRGS 903 (DE) from 1 Nov 2012	1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	150 mg/L	① 5-Hydroxy-N-methyl-2-pyrrolidone ② Urin ③ Expositionsende bzw. Schichtende
BLV (EU) from 1 Jun 2014	1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	20 mg/g creatinine	① N-Methyl-2-pyrrolidone ② urine ③ end of exposure or end of shift

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Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
BLV (EU) from 1 Jun 2014	1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	70 mg/g creatinine	① 5-hydroxy-N-methyl-2-pyrrolidone ② urine ③ end of exposure or end of shift

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	15.4 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	4.6 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	92.1 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	27.5 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	0.87 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	2.6 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	11.4 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	4.88 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	4.88 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	1.1 mg/cm ²	① DNEL worker ② Long-term - dermal, local effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	67.5 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	101.2 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	14.4 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	40 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	4.8 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
lithium chloride CAS No.: 7447-41-8 EC No.: 231-212-3	10 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
lithium chloride CAS No.: 7447-41-8 EC No.: 231-212-3	30 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
lithium chloride CAS No.: 7447-41-8 EC No.: 231-212-3	73.2 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
lithium chloride CAS No.: 7447-41-8 EC No.: 231-212-3	100 mg/kg	① DNEL worker ② Acute - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	0.56 mg/L	① PNEC aquatic, freshwater
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	0.056 mg/L	① PNEC aquatic, marine water
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	6 mg/L	① PNEC sewage treatment plant
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	1,072 mg/kg	① PNEC sediment, freshwater
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	107.2 mg/kg	① PNEC sediment, marine water
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	7.97 mg/kg	① PNEC soil
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	0.32 mg/L	① PNEC aquatic, intermittent release
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	1.1 mg/L	① PNEC aquatic, freshwater
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	0.11 mg/L	① PNEC aquatic, marine water
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	4.4 mg/kg	① PNEC sediment, freshwater
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	0.44 mg/kg	① PNEC sediment, marine water
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	0.32 mg/kg	① PNEC soil
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	11 mg/L	① PNEC aquatic, intermittent release
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	0.25 mg/L	① PNEC aquatic, freshwater
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	0.025 mg/L	① PNEC aquatic, marine water
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	10 mg/L	① PNEC sewage treatment plant

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Substance name	PNEC Value	① PNEC type
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	1.09 mg/kg	① PNEC sediment, freshwater
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	0.109 mg/kg	① PNEC sediment, marine water
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	0.07 mg/kg	① PNEC soil
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	5 mg/L	① PNEC aquatic, intermittent release
lithium chloride CAS No.: 7447-41-8 EC No.: 231-212-3	10.4 mg/L	① PNEC aquatic, freshwater
lithium chloride CAS No.: 7447-41-8 EC No.: 231-212-3	1.004 mg/L	① PNEC aquatic, marine water
lithium chloride CAS No.: 7447-41-8 EC No.: 231-212-3	140.2 mg/L	① PNEC sewage treatment plant
lithium chloride CAS No.: 7447-41-8 EC No.: 231-212-3	49.9 mg/kg	① PNEC sediment, freshwater
lithium chloride CAS No.: 7447-41-8 EC No.: 231-212-3	4.99 mg/kg	① PNEC sediment, marine water
lithium chloride CAS No.: 7447-41-8 EC No.: 231-212-3	4.13 mg/kg	① PNEC soil

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration. Suitable material: Breakthrough time: min

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Other protection measures:

When using do not eat, drink, smoke, sniff. Take off contaminated clothing and wash it before reuse.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: not determined

Odour: not determined

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Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	9 - 11	23 °C	
Melting point	<i>not determined</i>		
Freezing point	0 °C		② calculated.
Initial boiling point and boiling range	100 °C		
Decomposition temperature	<i>not determined</i>		
Flash point	<i>not determined</i>		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	<i>not determined</i>		
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not determined</i>		
Density	<i>not determined</i>		
Relative density	<i>not determined</i>		
Bulk density	<i>not determined</i>		
Water solubility	<i>not applicable</i>		
Partition coefficient: n-octanol/water	<i>not determined</i>		
Dynamic viscosity	900 - 6,000 mPa* s	23 °C	
Kinematic viscosity	350 - 700 mm ² /s	40 °C	① berechnet
VOC value	17.5 g/L		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Amines, Alcohols

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

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

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N-(2-aminoethyl)-1,2-ethanediamine, (chloromethyl)oxirane, alpha-hydro-omega-hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1) oxiranylmethyl ether, and methyloxirane polymer with oxirane 2-aminopropyl methyl ether CAS No.: 455946-46-0

LD₅₀ oral: >2,000 mg/kg (Rat)

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2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4
LD₅₀ oral: 1,620 mg/kg (Rat)
LD₅₀ dermal: 1,045 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (dust/mist): >0.07 - <0.3 mg/L 4 h (Rat)
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
LD₅₀ oral: 5,660 mg/kg (Rat)
LD₅₀ dermal: 2,764 mg/kg (Rabbit) OECD 402
LC₅₀ Acute inhalation toxicity (vapour): >0.097 mg/L 4 h (Rat) OECD 403
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1
LD₅₀ oral: 4,150 mg/kg (Rat) OECD 401
LD₅₀ dermal: >5,000 mg/kg (Rat) OECD 402
LC₅₀ Acute inhalation toxicity (vapour): >5.1 mg/L 4 h (Rat) OECD 403
LC₅₀ Acute inhalation toxicity (dust/mist): >5.1 mg/L 4 h (rat) OECD Guideline 403 (Acute Inhalation Toxicity)
Alcohols, C12-14, ethoxylated CAS No.: 68439-50-9 EC No.: 500-213-3
LD₅₀ oral: >2,000 mg/kg (Rat)

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Harmful if inhaled.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Causes serious eye damage. Causes serious eye damage.

Respiratory or skin sensitisation:

Contains 2,2'-iminodi(ethylamine). May produce an allergic reaction.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Additional information:

No data available

* 11.2. Information on other hazards

Endocrine disrupting properties:

The substance/mixture does not contain any constituents that are required under REACH Article 57(f) or the delegated

Commission Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 have endocrine disrupting properties in quantities equal to or greater than 0,1 %.

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SECTION 12: Ecological information

* 12.1. Toxicity

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N-(2-aminoethyl)-1,2-ethanediamine, (chloromethyl)oxirane, alpha-hydro-omega-hydroxypoly[oxy(methyl-1,2-ethanediyl)] ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1) oxiranylmethyl ether, and methyloxirane polymer with oxirane 2-aminopropyl methyl ether CAS No.: 455946-46-0

LC₅₀: >100 mg/L 4 d (fish)

2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4

LC₅₀: 430 mg/L 4 d (fish, Poecilia reticulata (Guppy))

LC₅₀: 430 mg/L 4 d (fish, Poecilia reticulata) EU Method C.1 (Acute Toxicity for Fish)

EC₅₀: 16 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))

EC₅₀: 187 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC: >10 mg/L 28 d (fish)

NOEC: 5.6 mg/L 21 d (Algae/water plant, Daphnia magna (Big water flea))

NOEC: 10 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC: >10 mg/L 28 d (fish, Gasterosteus aculeatus) OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)

NOEC: 5.6 mg/L 21 d (crustaceans, Daphnia magna) EU Method C.20 (Daphnia magna Reproduction Test)

ErC₅₀: 1,164 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201

LOEC: 11.3 mg/L 21 d (crustaceans, Daphnia magna) EU Method C.20 (Daphnia magna Reproduction Test)

2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6

LC₅₀: 1,300 mg/L 4 d (fish, Lepomis macrochirus (Bluegill)) OECD 203

LC₅₀: 1,300 mg/L 4 d (fish, Lepomis macrochirus) OECD Guideline 203 (Fish, Acute Toxicity Test)

EC₅₀: 100 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202

EC₅₀: 1,101 mg/L 3 d (Algae/water plant)

EC₅₀: 1,101 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)

EC₅₀: >100 mg/L 4 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) OECD Guideline 201 (Alga, Growth Inhibition Test)

EC₅₀: >100 mg/L 2 d (crustaceans, Daphnia magna) EU Method C.2 (Acute Toxicity for Daphnia)

NOEC: 369 mg/L 4 d (fish)

NOEC: ≥100 mg/L 4 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC: ≥100 mg/L 2 d (crustaceans, Daphnia magna) EU Method C.2 (Acute Toxicity for Daphnia)

1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1

LC₅₀: >500 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))

LC₅₀: >500 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) Static fish toxicity test according to BBA-bulletin No. 33, 2. edition, September 1975: "Unterlagen zur Toxikologie eines Pflanzenbehandlungsmittels im Rahmen des Zulassungsverfahrens", Absatz D-2.4: Auswirkungen auf Fische.

EC₅₀: 600.5 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) German Industrial Standard DIN 38412 Part 9

EC₅₀: 1,107 mg/L 4 d (crustaceans, Palaemonetes vulgaris) US EPA-660/3-75-009

NOEC: 12.5 mg/L 21 d (crustaceans, Daphnia magna (Big water flea))

NOEC: 500 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) Static fish toxicity test according to BBA-bulletin No. 33, 2. edition, September 1975: "Unterlagen zur Toxikologie eines Pflanzenbehandlungsmittels im Rahmen des Zulassungsverfahrens", Absatz D-2.4: Auswirkungen auf Fische.

NOEC: 12.5 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)

ErC₅₀: 600.5 mg/L 3 d (Algae/water plant)

LOEC: 25 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)

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Alcohols, C12-14, ethoxylated CAS No.: 68439-50-9 EC No.: 500-213-3
LC₅₀ : 1 - 10 mg/L 4 d (fish, Danio rerio (zebrafish))
LC₅₀ : 0.423 mg/L 4 d (fish, Pimephales promelas) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC₅₀ : >0.1 - 1 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
EC₅₀ : 0.044 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC₅₀ : 0.125 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC : 0.037 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
NOEC : 0.304 mg/L 4 d (fish, Pimephales promelas) OECD Guideline 203 (Fish, Acute Toxicity Test)
NOEC : 0.045 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

No data available

* 12.3. Bioaccumulative potential

2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4
Log K_{OW} : -1.58
Bioconcentration factor (BCF) : ≤ 6.3 Species: Cyprinus carpio
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
Log K_{OW} : 1
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1
Log K_{OW} : -0.46
Alcohols, C12-14, ethoxylated CAS No.: 68439-50-9 EC No.: 500-213-3
Log K_{OW} : 5.24

12.4. Mobility in soil

No data available

* 12.5. Results of PBT and vPvB assessment

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N-(2-aminoethyl)-1,2-ethanediamine, (chloromethyl)oxirane, alpha-hydro-omega-hydroxypoly[oxy(methyl-1,2-ethanediy)] ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1) oxiranylmethyl ether, and methyloxirane polymer with oxirane 2-aminopropyl methyl ether CAS No.: 455946-46-0
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
chromium (III) oxide CAS No.: 1308-38-9 EC No.: 215-160-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1
Results of PBT and vPvB assessment: vPvB-substance.
Alcohols, C12-14, ethoxylated CAS No.: 68439-50-9 EC No.: 500-213-3
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

This substance/mixture does not contain components in concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

* 12.6. Endocrine disrupting properties

The substance/mixture does not contain any constituents that are required under REACH Article 57(f) or the delegated

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Commission Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 have endocrine disrupting properties in quantities equal to or greater than 0,1 %.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

08 01 15 *	aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances
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*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

 [DE] National regulations

Water hazard class

WGK:

2 - obviously hazardous to water

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Description:

Self-classification according to AwSV (substance).

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

* 16.1. Indication of changes

1.1.	Product identifier
1.2.	Relevant identified uses of the substance or mixture and uses advised against
1.4.	Emergency telephone number
2.1.	Classification of the substance or mixture
2.2.	Label elements
2.3.	Other hazards
3.2.	Mixtures
4.1.	Description of first aid measures
5.1.	Extinguishing media
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.3.	Key literature references and sources for data
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	Relevant R-, H- and EUH-phrases (Number and full text)

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health

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NOEC No Observed Effect Concentration
OECD Organisation for Economic Cooperation and Development
OSHA Occupational Safety & Health Administration
PBT persistent and bioaccumulative and toxic
PNEC Predicted No Effect Concentration
REACH Registration, Evaluation and Authorization of Chemicals
RID Dangerous goods regulations for transport by rail
SU use category
TRGS Technische Regeln für Gefahrstoffe
UN United Nations
VOC Volatile organic compounds

* 16.3. Key literature references and sources for data

Substance name	Type	source of supply
1-methyl-2-pyrrolidone CAS No.: 872-50-4 EC No.: 212-828-1	Classification of the substance or mixture; LC ₅₀ Acute inhalation toxicity (dust/mist); LC ₅₀ ; EC ₅₀ ; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/
Alcohols, C12-14, ethoxylated CAS No.: 68439-50-9 EC No.: 500-213-3	Classification of the substance or mixture; LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
2,2'-iminodi(ethylamine) CAS No.: 111-40-0 EC No.: 203-865-4	LC ₅₀ ; EC ₅₀ ; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/

* 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	Calculation method.
Acute toxicity (inhalative) (<i>Acute Tox. 4</i>)	H332: Harmful if inhaled.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

* 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
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.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available

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* Data changed compared with the previous version.