

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



Print date: 14.04.2023
Version: 1-12

E-EP-Repa-Mörtel Komp.B
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. **product identifiers**

Identification of the substance or mixture **2K EP-Repa Mörtel Komp.B**
UFI: SWQ2-TWU5-1XKS-DJC4

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

Relevant identified uses:

Coatings and paints, thinners, paint removers; Building and construction work; Professional use.

Uses advised against:

Consumer use. Product is not intended for consumer use.

1.3. **Details of the supplier of the safety data sheet**

supplier (manufacturer/importer/downstream user/distributor):

Megaplast
Bauchemie GmbH Telephone: + 49 7245 9197-0
Oberwaldstraße 1 Telefax: + 49 7245 9197-10
D-76474 Au am Rhein

Department responsible for information:

E-mail (competent person) ar@megaplast.eu

1.4. **Emergency telephone number**

Emergency telephone number: +44 (171) 635 91 91 National Poison Inform.
Centre, Medical Toxicology Unit, Avalonley Road,
London SE14 5ER

SECTION 2: Hazards identification

2.1. **Classification of the substance or mixture**

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility. Suspected of damaging the unborn child.
STOT RE 1 / H372	STOT-repeated exposure	Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalative.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

2.2. **Label elements**

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

Hazard pictograms



Danger

Hazard statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility. Suspected of damaging the unborn child.
H372 Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalative.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

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P280 Wear protective gloves and eye/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Hazard components for labelling

2-piperazin-1-ylethylamine
Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols
2-(2-Aminoethylamino)ethanol (AEEA)

Supplemental hazard information

not applicable

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Mixture consisting of the following components

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

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
701-443-9	01-2119980970-27-0000 Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols Skin Irrit. 2 H315 / Skin Sens. 1A H317 / Aquatic Chronic 2 H411	25 - 50
205-411-0 140-31-8 612-105-00-4	01-2119471486-30 2-piperazin-1-ylethylamine Acute Tox. 4 H302 / Acute Tox. 3 H311 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Repr. 2 H361 / STOT RE 1 H372 / Aquatic Chronic 3 H412 Acute toxicity estimate (ATE): ATE (oral): 2140 mg/kg bw	25 - 50
202-859-9 100-51-6 603-057-00-5	01-2119492630-38 benzyl alcohol Acute Tox. 4 H332 / Acute Tox. 4 H302 Acute toxicity estimate (ATE): ATE (oral): 1230 mg/kg bw / ATE (inhalation, vapour): 4,17 mg/L	10 - 25
265-199-0 64742-95-6 649-356-00-4	01-2119455851-35 Solvent naphtha (petroleum), light arom. Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3 H336 / Aquatic Chronic 2 H411 / EUH066	1 - 2,5
203-867-5 111-41-1 603-194-00-0	01-2119456894-24 2-(2-Aminoethylamino)ethanol (AEEA) Repr. 1B H360 / Skin Corr. 1B H314 / Skin Sens. 1 H317 Specific concentration limit (SCL): STOT SE 3 H335 >= 5	0,1 - 1

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do

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not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling:

Keep container tightly closed and in a well-ventilated place. Protect from heat and direct sunlight.

Specific requirements or handling rules:

Use only tin containers to mix and cure the components. Process the ready to use compound speedily. Mix remaining quantities with plenty of quartz sand and/or distribute them to several tin containers. Caution! Leftover quantities of the resin may get very hot and react violently and spoutingly whereupon the emission of noxious vapours is possible. Risk of burns! Don't allow wastes of resin to cure unattended and let them cool down prior to disposal.

Precautions against fire and explosion:

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Provide for retaining containers, e.g. floor pan without outflow.

Hints on joint storage:

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Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions:

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 25 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

SECTION 8: Exposure controls/personal protection

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

8.1. **Control parameters**

Occupational exposure limit values:

not applicable

DNEL:

benzyl alcohol

Index No. 603-057-00-5 / EC No. 202-859-9 / CAS No. 100-51-6

DNEL long-term inhalative (local), Workers: 90 mg/m³

DNEL long-term inhalative (systemic), Workers: 90 mg/m³

2-piperazin-1-ylethylamine

Index No. 612-105-00-4 / EC No. 205-411-0 / CAS No. 140-31-8

DNEL acute inhalative (local), Workers: 80 mg/m³

DNEL acute inhalative (systemic), Workers: 10,6 mg/m³

DNEL long-term inhalative (local), Workers: 0,015 mg/m³

DNEL long-term inhalative (systemic), Workers: 10,6 mg/m³

Solvent naphtha (petroleum), light arom.

Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6

DNEL acute inhalative (local), Workers: 1066,67 mg/m³

DNEL acute inhalative (systemic), Workers: 1286,4 mg/m³

DNEL long-term inhalative (local), Workers: 837,5 mg/m³

DNEL long-term inhalative (systemic), Workers: 1,9 mg/m³

DNEL acute inhalative (local), Consumer: 640 mg/m³

DNEL acute inhalative (systemic), Consumer: 1152 mg/m³

DNEL long-term inhalative (local), Consumer: 178,57 mg/m³

DNEL long-term inhalative (systemic), Consumer: 410 x10⁻³ mg/m³

Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols

EC No. 701-443-9

DNEL long-term dermal (systemic), Workers: 2,87 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 1,21 mg/m³

PNEC:

2-piperazin-1-ylethylamine

Index No. 612-105-00-4 / EC No. 205-411-0 / CAS No. 140-31-8

PNEC aquatic, freshwater: 0,058 mg/L

PNEC aquatic, marine water: 0,0058 mg/L

PNEC sediment, freshwater: 215 mg/kg

PNEC sediment, marine water: 21,5 mg/kg

PNEC, soil: 42,9 mg/kg

PNEC sewage treatment plant (STP): 250 mg/L

Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols

EC No. 701-443-9

PNEC aquatic, freshwater: 11,5 µg/L

PNEC aquatic, intermittent release: 13,5 µg/L

PNEC sediment, freshwater: 1,564 mg/kg

PNEC, soil: 0,305 mg/kg soil dw

PNEC sewage treatment plant (STP): 10 mg/L

8.2. **Exposure controls**

Provide good ventilation. This can be achieved with local or room suction.

Occupational exposure controls

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Respiratory protection:

Not necessary if room is well-ventilated. During spraying wear suitable respiratory equipment. When spraying, wear self-contained breathing apparatus.

Hand protection:

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)
Thickness of the glove material > 0,4 mm ; Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection:

Wear closed protection glasses.

Protective clothing:

Apron, Boots

Protective measures:

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Liquid
Colour:	amber
Odour:	amine like
Odour threshold:	not determined
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flammability:	Combustible liquid.
Lower and upper explosion limit:	
Lower explosion limit:	0,8 Vol-%
Upper explosion limit:	7 Vol-%
	Source: Solvent naphtha (petroleum), light arom.
Flash point:	92 °C
Auto-ignition temperature:	450 °C
	Source: Solvent naphtha (petroleum), light arom.
Decomposition temperature:	not applicable
pH at 20 °C:	9
Cinematic Viskosity (23°C):	165,48 mm ² /s
Viscosity at 23 °C:	170 mPa* s
Solubility(ies):	
Water solubility at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	0,099 mbar
Density and/or relative density:	
Density at 20 °C:	1,000 g/cm ³
	Method: DIN EN ISO 2811
Relative density at 20 °C:	not determined
Relative vapour density:	not determined
particle characteristics:	not applicable

9.2. Other information

Solid content: 98,02 weight-% / 94,91 L/kg / 94,91 Vol-%

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Solvent:
Organic solvents: 2,0 weight-%
Water: 0,0 weight-%

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity, calculated:

ATEmix, oral: 1056 mg/kg

ATEmix, dermal: 2127 mg/kg

ATEmix, inhalative (vapours): > 20 mg/L

Acute toxicity

Harmful if swallowed.

benzyl alcohol

oral, LD50, Rat: 1230 mg/kg

dermal, LD50, Rabbit: 2000 mg/kg

inhalative (vapours), LC50, Rat: > 4,178 mg/L (4 h)

2-piperazin-1-ylethylamine

oral, LD50, Rat: 2140 mg/kg

dermal, LD50, Rabbit: 866 mg/kg

Solvent naphtha (petroleum), light arom.

oral, LD50, Rat: > 5000 mg/kg

2-(2-Aminoethylamino)ethanol (AEEA)

oral, LD50, Rat: 2150 mg/kg

dermal, LD50, Rabbit: > 2000 mg/kg

Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols

oral, LD50, Rat: > 2000 mg/kg

dermal, LD50, Rat: > 2000 mg/kg

inhalative (vapours), LC50, Rat: > 4,92 mg/L (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes severe skin burns and eye damage.

2-piperazin-1-ylethylamine

Skin, Rabbit (24 h)

necrosis

eyes, Rabbit (7 d)

strongly irritant.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Suspected of damaging fertility. Suspected of damaging the unborn child.

2-(2-Aminoethylamino)ethanol (AEEA)
Reproductive toxicity

STOT-single exposure; STOT-repeated exposure

Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalative.

Solvent naphtha (petroleum), light arom.
Specific target organ toxicity (single exposure), Irritation
Specific target organ toxicity (single exposure), drowsiness

Aspiration hazard

Solvent naphtha (petroleum), light arom.
Aspiration hazard

Practical experience/human evidence

No information available.

Overall assessment on CMR properties

EC No. CAS No.	Designation	Classification according to Regulation (EC) No 1272/2008 [CLP]
203-867-5 111-41-1	2-(2-Aminoethylamino)ethanol (AEEA)	Repr. 1B

Remark

There is no information available on the preparation itself . Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP].

11.2. **Information on other hazards**

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

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

There is no information available on the preparation itself . Do not allow to enter into surface water or drains.

12.1. **Toxicity**

benzyl alcohol

Fish toxicity, LC50 10 - 460 mg/L (96 h)

2-piperazin-1-ylethylamine

Fish toxicity, LC50, Cyprinus carpio (Common Carp): 2190 mg/L (96 h)

Daphnia toxicity, EC50, daphnia: 58 mg/L (48 h)

Algae toxicity, IC50:, Algae: > 1000 mg/L (72 h)

Bacteria toxicity, EC50, Pseudomonas putida: 511 mg/L

Solvent naphtha (petroleum), light arom.

Algae toxicity, ErC50 1 - 10 mg/L

2-(2-Aminoethylamino)ethanol (AEEA)

Fish toxicity, LC50: 690 mg/L (96 h)

Daphnia toxicity, EC50: 22 mg/L (48 h)

Algae toxicity, EC50: 353,6 mg/L (72 h)

Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols

Fish toxicity, LC50 1 - 10 mg/L (96 h)

Method: OECD 203

Fish toxicity, LL50: 14,8 mg/L

Method: OECD 202

Daphnia toxicity, NOEC, Daphnia magna (Big water flea) (21 d)

Method: OECD 211

Aquatic plants, EL50, Chlorella vulgaris: 3,14 mg/L (72 h)

Long-term Ecotoxicity

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Toxic to aquatic life with long lasting effects.

2-(2-Aminoethylamino)ethanol (AEEA)
Algae toxicity, EC10: 156 mg/L (72 h)

12.2. Persistence and degradability

2-piperazin-1-ylethylamine
, OECD 301 F: 0 % (28 d)
Product is not easily biodegradable.

2-(2-Aminoethylamino)ethanol (AEEA)
, OECD 301 F: > 60 % (28 D); Evaluation Not readily biodegradable (according to OECD criteria)
Method: OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D

12.3. Bioaccumulative potential

2-(2-Aminoethylamino)ethanol (AEEA)
Partition coefficient: n-octanol/water: 0 ; Evaluation Low
Method: Partition coefficient n-octanol /water (log P O/W):

Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols
Partition coefficient: n-octanol/water: 3,03

Bioconcentration factor (BCF)

2-(2-Aminoethylamino)ethanol (AEEA)
Bioconcentration factor (BCF): 2,1 ; Evaluation Low

Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols
Bioconcentration factor (BCF), fish: Evaluation none
Method: OECD 305

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080111* Waste paint and varnish containing organic solvents or other dangerous substances

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. UN number or ID number

UN 2735

14.2. UN proper shipping name

Land transport (ADR/RID):

Amines, liquid, corrosive, n.o.s.
(N-Aminoethylpiperazin)

Sea transport (IMDG):

AMINES, LIQUID, CORROSIVE, N.O.S.

Air transport (ICAO-TI / IATA-DGR):

(N-Aminoethylpiperazin, Phenol, styrolisiert)
Amines, liquid, corrosive, n.o.s.
(N-Aminoethylpiperazin)

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- 14.3. **Transport hazard class(es)** 8
- 14.4. **Packing group** III
- 14.5. **Environmental hazards** *
- Land transport (ADR/RID) DANGEROUS FOR THE ENVIRONMENT
Marine pollutant p / Phenol, styrolisiert
- 14.6. **Special precautions for user**
- Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8
- Further information**
- Land transport (ADR/RID)**
Tunnel restriction code E
- Sea transport (IMDG)**
EmS-No. F-A, S-B
- 14.7. **Maritime transport in bulk according to IMO instruments**
- No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- EU legislation:**
- Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**
VOC-value (in g/L): 20,000
- Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**
VOC product category: (Cat. A/j) ; VOC limit value: 500 g/l
Maximum VOC content of the product in a ready to use condition (in g/L): <500,000
- National regulations**
- Restrictions of occupation**
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
- Other regulations, restrictions and prohibition regulations:**
- 15.2. **Chemical Safety Assessment** *
- For this mixture a chemical safety assesment has not been carried out. For the following substances of this preparation a chemical safety assessment has been carried out:**

EC No. CAS No.	Chemical name	REACH No.
701-443-9	Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols	01-2119980970-27-0000
205-411-0 140-31-8	2-piperazin-1-ylethylamine	01-2119471486-30
202-859-9 100-51-6	benzyl alcohol	01-2119492630-38
265-199-0 64742-95-6	Solvent naphtha (petroleum), light arom.	01-2119455851-35
203-867-5 111-41-1	2-(2-Aminoethylamino)ethanol (AEEA)	01-2119456894-24

SECTION 16: Other information *

Full text of classification in section 3:

Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

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Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 3 / H311	Acute toxicity (dermal)	Toxic in contact with skin.
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility. Suspected of damaging the unborn child.
STOT RE 1 / H372	STOT-repeated exposure	Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalative.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Repr. 1B / H360	Reproductive toxicity	May damage the unborn child. Suspected of damaging fertility.

Classification procedure

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

Acute Tox. 4	Acute toxicity (oral)	Calculation method.
Skin Corr. 1B	Skin corrosion/irritation	Calculation method.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Repr. 2	Reproductive toxicity	Calculation method.
STOT RE 1	STOT-repeated exposure	Calculation method.
Aquatic Chronic 2	Hazardous to the aquatic environment	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



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EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version