

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830



Article No.: 2 05603 BN000 epple 5603-neu  
Print date 11.04.2022 Revision date 02.03.2022  
Version 1.3 Issue date 12.01.2022

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

**1.1. Product identifier**

Article No. (manufacturer/supplier): 2 05603 BN000  
Trade name/designation epple 5603-neu  
Klebstoff  
Komponente B

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

**Relevant identified uses:**

Adhesive for the gluing of most diverse substrates.

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

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

E. Epple & Co. GmbH  
Hertzstr. 8  
71083 Herrenberg

Telephone: +49 7032 / 9771-17  
Telefax: +49 7032 / 9771-60  
www.epple-chemie.de

**Department responsible for information:**

laboratory

E-mail (competent person)

labor@epple-chemie.de

**1.4. Emergency telephone number**

Information center against poisoning Bonn

+49 (0) 228 / 19 240 (Advice in German)

**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.

Aquatic Chronic 2 / H411

Hazardous to the aquatic environment

Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

The product is classified and labelled according to EC directives or corresponding national laws.

**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.

H411

Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260

Do not breathe vapour.

P280

Wear protective gloves.

P301 + P330 + P331

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P304 + P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P501

Dispose of contents/container to industrial incineration plant.

**Hazard components for labelling**

Phenol

3,6,9-triazaundecamethylenediamine

Formaldehyde, polymer with 1,3-benzenedimethaneamine and phenol

Amines, polyethylenepoly-, tetraethylenepentamine fraction

m-phenylenebis(methylamine)

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Fattyacids, tall-oil, reaction products with diethylenetriamine

**Supplemental hazard information**

not applicable

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Description** modified aminic hardener

**Hazardous ingredients**

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

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
203-986-2 112-57-2 612-060-00-0	01-2119487290-37 3,6,9-triazaundecamethylenediamine Acute Tox. 4 H312 / Acute Tox. 4 H302 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	9,9 - 19,9
500-137-0 57214-10-5	01-2119966906-20 Formaldehyde, polymer with 1,3-benzenedimethaneamine and phenol Skin Corr. 1C H314 / Skin Sens. 1B H317 / Aquatic Chronic 3 H412	2,4 - 9,9
292-587-7 90640-66-7	01-2119487290-37 Amines, polyethylenepoly-, tetraethylenepentamine fraction Acute Tox. 4 H302 / Acute Tox. 4 H312 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	2,4 - 9,9
202-859-9 100-51-6 603-057-00-5	01-2119492630-38 benzyl alcohol Acute Tox. 4 H332 / Acute Tox. 4 H302	0,9 - 2,4
216-032-5 1477-55-0	01-2119480150-50 m-phenylenebis(methylamine) Acute Tox. 4 H302 / Acute Tox. 4 H332 / Skin Corr. 1B H314 / Skin Sens. 1B H317 / Aquatic Chronic 3 H412	0,9 - 2,4
263-160-2 61790-69-0	01-2119487013-43 Fattyacids, tall-oil, reaction products with diethylenetriamine Skin Corr. 1B H314 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	0,1 - 0,9
203-632-7 108-95-2 604-001-00-2	01-2119471329-32 Phenol Muta. 2 H341 / Acute Tox. 3 H331 / Acute Tox. 3 H311 / Acute Tox. 3 H301 / STOT RE 2 H373 / Skin Corr. 1B H314 Specific concentration limit (SCL): Skin Corr. 1B H314 >= 3 / Skin Irrit. 2 H315 >= 1 / Eye Irrit. 2 H319 >= 1	0,1 - 0,9

**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 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. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

### **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**

Avoid contact with skin, eyes and clothes. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Follow the legal protection and safety regulations.

#### **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.

##### **Hints on joint storage**

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 5 °C and 30 °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.

#### **7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values

Phenol

Index No. 604-001-00-2 / EC No. 203-632-7 / CAS No. 108-95-2

TWA: 20 mg/m<sup>3</sup>; 5 ppm

STEL: 39 mg/m<sup>3</sup>; 10 ppm

#### Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

#### DNEL:

benzyl alcohol

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

DNEL acute dermal, short-term (systemic), Workers: 47 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 9,5 mg/kg

DNEL acute inhalative (systemic), Workers: 450 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 90 mg/m<sup>3</sup>

Phenol

Index No. 604-001-00-2 / EC No. 203-632-7 / CAS No. 108-95-2

DNEL long-term inhalative (systemic), Workers: 8 mg/m<sup>3</sup>

Formaldehyde, polymer with 1,3-benzenedimethaneamine and phenol

EC No. 500-137-0 / CAS No. 57214-10-5

DNEL acute dermal, short-term (local), Workers: 2,8 mg/kg bw/day

DNEL acute dermal, short-term (systemic), Workers: 3,85 µg/cm<sup>2</sup>

DNEL long-term dermal (local), Workers: 0,28 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 0,385 µg/cm<sup>2</sup>

DNEL acute inhalative (local), Workers: 6 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers: 2 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Workers: 0,6 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 0,02 mg/m<sup>3</sup>

Amines, polyethylenepoly-, triethylenetetramine fraction

EC No. 292-588-2 / CAS No. 90640-67-8

DNEL long-term dermal (systemic), Workers: 0,57 mg/kg bw/day

DNEL acute inhalative (local), Workers: 5380 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 1 mg/m<sup>3</sup>

#### PNEC:

benzyl alcohol

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

PNEC aquatic, freshwater: 1 mg/L

PNEC aquatic, marine water: 0,1 mg/L

PNEC aquatic, intermittent release: 2,3 mg/L

PNEC sediment, freshwater: 5,27 mg/kg

PNEC sediment, marine water: 0,527 mg/kg

PNEC, soil: 0,456 mg/kg

PNEC sewage treatment plant (STP): 39 mg/L

Phenol

Index No. 604-001-00-2 / EC No. 203-632-7 / CAS No. 108-95-2

PNEC aquatic, freshwater: 7,7 µg/L

PNEC aquatic, marine water: 0,77 µg/L

PNEC sediment, freshwater: 91,5 µg/kg

PNEC sediment, marine water: 9,15 µg/kg

PNEC, soil: 136 µg/kg

PNEC sewage treatment plant (STP): 2,1 mg/L

Formaldehyde, polymer with 1,3-benzenedimethaneamine and phenol

EC No. 500-137-0 / CAS No. 57214-10-5

PNEC aquatic, freshwater: 20 µg/L  
PNEC aquatic, marine water: 2 µg/L  
PNEC sediment, freshwater: 0,1001 mg/kg dw  
PNEC sediment, marine water: 0,01 mg/kg dw  
PNEC, soil: 0,0236 mg/kg dw  
PNEC sewage treatment plant (STP): 30 mg/L  
Amines, polyethylenepoly-, triethylenetetramine fraction  
EC No. 292-588-2 / CAS No. 90640-67-8  
PNEC aquatic, freshwater: 0,19 mg/L  
PNEC aquatic, marine water: 0,038 mg/L  
PNEC aquatic, intermittent release: 0,2 mg/L  
PNEC sediment, freshwater: 95,9 mg/kg d.w.  
PNEC sediment, marine water: 19,2 mg/kg d.w.  
PNEC, soil: 19,1 mg/kg d.w.  
PNEC sewage treatment plant (STP): 4,25 mg/L

## 8.2. Exposure controls

### Personal protection equipment

#### **Respiratory protection**

Recommendation: full mask / half mask / filtering half mask. Type A / B class 1/2 Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

#### **Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### **Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

#### **Body protection**

#### **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 section 7. No additional measures necessary.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

\*

#### **Appearance:**

**Appearance:** Liquid  
**Colour:** brown

**Odour:** Amines

**Odour threshold:** not applicable

**pH at 20 °C:** not relevant

**Melting point/freezing point:** -30 °C

**Initial boiling point and boiling range:** not applicable

**Flash point:** not determined

**Evaporation rate:** not applicable

#### **flammability**

**Burning time:** not applicable

#### **Upper/lower flammability or explosive limits:**

**Lower explosion limit:** 1,22 Vol-%

**Upper explosion limit:** 13 Vol-%

**Vapour pressure at 20 °C:** 0,027 mbar

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<b>Vapour density:</b>	<b>not applicable</b>
<b>Relative density:</b>	
<b>Density at 20 °C:</b>	<b>1,00 g/cm<sup>3</sup></b>
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>partially miscible</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Auto-ignition temperature:</b>	<b>435 °C</b>
<b>Decomposition temperature:</b>	<b>not applicable</b>
<b>Viscosity at °C:</b>	<b>40 - 60 Pas</b>
<b>Explosive properties:</b>	<b>not applicable</b>
<b>Oxidising properties:</b>	<b>not applicable</b>

9.2. **Other information**

**Solvent separation test:** < 3 weight-% (ADR/RID)

**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**

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**

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

11.1. **Information on toxicological effects**

**Acute toxicity**

Harmful if swallowed.

benzyl alcohol

oral, LD50, Rat: 1230 mg/kg

dermal, LD50, Rabbit: 2000 mg/kg

inhalative (Gases), LC50, Rat: > 4,178 ppmV (4 h)

Phenol

oral, LD50, Rat: 340 mg/kg

dermal, LD50, Rabbit 850 - 1400 mg/kg

inhalative (vapours), LC50, Rat: 0,9 mg/L (8 h)

m-phenylenebis(methylamine)

oral, LD50, Rat: 930 mg/kg

dermal, LD50, Rabbit: 2000 mg/kg

inhalative (vapours), LC50, Rat: 2,4 mg/L (4 h)

inhalative (vapours), LC50, Rat: 3,89 mg/L (1 h)

Fatty acids, C18 unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

oral, LD50, Rat: > 2000 mg/kg

Formaldehyde, polymer with 1,3-benzenedimethanamine and phenol

oral, LD50, Rat: > 2000 mg/kg

Method: OECD 425

dermal, LD50, Rat: > 2020 mg/kg

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Method: OECD 402

Amines, polyethylenepoly-, triethylenetetramine fraction

oral, LD50, Rat: 1717 mg/kg

dermal, LD50, Rat: 1720 mg/kg

dermal, LD50, Rabbit: 1465 mg/kg

**Skin corrosion/irritation; Serious eye damage/eye irritation**

Causes severe skin burns and eye damage.

benzyl alcohol

eyes, Rabbit: Evaluation Irritating to eyes.

Method: OECD 405

Skin, Rabbit: Evaluation no skin irritation

Method: OECD 404

m-phenylenebis(methylamine)

eyes, Rabbit (24 h)

Method: strongly irritant.

Skin, Rabbit (24 h): Evaluation strongly irritant.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

benzyl alcohol

Skin, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406

Formaldehyde, polymer with 1,3-benzenedimethaneamine and phenol

Skin, Mouse: ; Evaluation sensitising

Method: OECD 429

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Formaldehyde, polymer with 1,3-benzenedimethaneamine and phenol

Germ cell mutagenicity; Evaluation negative

Method: OECD 471 (Ames test)

Germ cell mutagenicity; Evaluation negative

Method: OECD 473

Germ cell mutagenicity; Evaluation positive

Method: OECD 476

**STOT-single exposure; 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.

**Practical experience/human evidence**

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**Remark**

There is no information available on the preparation itself .

**SECTION 12: Ecological information**

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

Partition coefficient: n-octanol/water: Mixtures: Not applicable. Do not allow to enter into surface water or drains.

**12.1. Toxicity**

benzyl alcohol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 460 mg/L (96 h)

Method: EPA 600/3-76/097

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 230 mg/L (48 h)

Method: OECD 202

Daphnia toxicity, LC50, Daphnia magna (Big water flea): 360 mg/L (48 h)

Algae toxicity, EC0, Scenedesmus quadricauda: 640 mg/L (96 h)

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 770 mg/L (72 h)  
Method: OECD 201  
Bacteria toxicity, EC10, Pseudomonas putida: 658 mg/L (16 h)

#### Phenol

Fish toxicity, LC50, Danio rerio (zebrafish): 27,8 mg/L (96 h)  
Daphnia toxicity, EC50, Daphnia pulex (water flea) 18 - 36 mg/L (48 h)  
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 46,42 mg/L (96 h)  
Algae toxicity, EC50, Desmodesmus subspicatus 187 - 279 mg/L (72 h)  
Fish toxicity, LC50, Salmo gairdneri 9,1 - 12,2 mg/L (96 h)  
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 6,6 mg/L (48 h)  
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 8,9 mg/L (96 h)

#### Formaldehyde, polymer with 1,3-benzenedimethanamine and phenol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 25,9 mg/L (96 h)  
Method: OECD 203  
Daphnia toxicity, EC50: 29,8 mg/L (48 h)  
Method: OECD 202  
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 20,4 mg/L (72 h)  
Method: OECD 201  
Bacteria toxicity, EC50, Activated sludge: 491,3 mg/L (3 h)  
Method: OECD 209

#### Amines, polyethylenepoly-, triethylenetetramine fraction

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 31,1 mg/L (48 h)  
Method: EU C.2  
Fish toxicity, EC50, Pimephales promelas (fathead minnow): 330 mg/L (72 h)  
Method: OECD 201  
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 2,2 mg/L (72 h)

#### Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

##### benzyl alcohol

Biodegradation: 92 - 96 % (28 d); Evaluation Readily biodegradable  
Method: OECD 301C  
Biodegradation: 95 - 97 % (21 d); Evaluation Readily biodegradable  
Method: OECD 301A

##### Formaldehyde, polymer with 1,3-benzenedimethanamine and phenol

Biodegradation: 19,3 % (28 d)  
Method: OECD 301D

#### 12.3. Bioaccumulative potential

##### benzyl alcohol

Partition coefficient: n-octanol/water: 1,05

##### Phenol

Partition coefficient: n-octanol/water: 1,47

##### m-phenylenebis(methylamine)

Partition coefficient: n-octanol/water: 0,18

##### Amines, polyethylenepoly-, triethylenetetramine fraction

Partition coefficient: n-octanol/water: -2,65

#### Bioconcentration factor (BCF)

##### Phenol

Bioconcentration factor (BCF), Leuciscus idus (golden orfe): 20  
Bioconcentration factor (BCF), Pimephales promelas (fathead minnow):  $1276 \times 10^{49}$   
Bioconcentration factor (BCF), Daphnia magna (Big water flea): 277

##### m-phenylenebis(methylamine)

Bioconcentration factor (BCF), Cyprinus carpio (Common Carp): < 0,3

##### Amines, polyethylenepoly-, triethylenetetramine fraction

Bioconcentration factor (BCF): < 1

#### 12.4. Mobility in soil



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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. 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**

080409\* Waste adhesives and sealants 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**

UN 2735

**14.2. UN proper shipping name**

Land transport (ADR/RID):

Amines, liquid, corrosive, n.o.s.

Sea transport (IMDG):

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

(, Fettsäuren, C-18 ungesättigt, dimere, oligomere Reaktions- produkte mit Tallölfettsäuren und Triethylentetramin)

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

Amines, liquid, corrosive, n.o.s.

**14.3. Transport hazard class(es)**

8

**14.4. Packing group**

II

**14.5. Environmental hazards**

Land transport (ADR/RID)

DANGEROUS FOR THE ENVIRONMENT

Marine pollutant

p / Fettsäuren, C-18 ungesättigt, dimere, oligomere Reaktions-

**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

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

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information**

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

**EU legislation**

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**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

VOC-value (in g/L): 21

**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 juvenils according to the 'juvenile work protection guideline' (94/33/EC).

**Substance/product listed in the following inventories:**

AICS no informtion  
 DSL no information  
 IECSC no information  
 KECI no information  
 MITI no information  
 PICCS no information  
 TSCA no information

15.2. **Chemical Safety Assessment**

**For the following substances of this mixture a chemical safety assessment has been carried out:**

EC No. CAS No.	Designation	REACH No.
203-986-2 112-57-2	3,6,9-triazaundecamethylenediamine	01-2119487290-37
500-137-0 57214-10-5	Formaldehyde, polymer with 1,3-benzenedimethaneamine and phenol	01-2119966906-20
292-587-7 90640-66-7	Amines, polyethylenepoly-, tetraethylenepentamine fraction	01-2119487290-37
202-859-9 100-51-6	benzyl alcohol	01-2119492630-38
216-032-5 1477-55-0	m-phenylenebis(methylamine)	01-2119480150-50
263-160-2 61790-69-0	Fattyacids, tall-oil, reaction products with diethylenetriamine	01-2119487013-43
203-632-7 108-95-2	Phenol	01-2119471329-32

**SECTION 16: Other information**

**Full text of classification in section 3:**

Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1 / 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.
Skin Corr. 1C / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1B / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Muta. 2 / H341	Germ cell mutagenicity	Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.
Acute Tox. 3 / H311	Acute toxicity (dermal)	Toxic in contact with skin.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830



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exposure cause the hazard).

**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.
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

**Abbreviations and acronyms**

n.a. = not applicable  
n.b. = not determined

**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 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