

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



Article No.: 2 05610 BN001 epple-easy 5610-neu
Print date 30.09.2021 Revision date 30.09.2021
Version 4.2 Issue date 30.09.2021

EN
Page 1 / 12

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

1.1. Product identifier

Article No. (manufacturer/supplier): 2 05610 BN001
Trade name/designation epple-easy 5610-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

Emergency telephone number +49 7032 / 9771-0

Only available during office hours. (08:00am to 16:00pm)

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.
Muta. 2 / H341	Germ cell mutagenicity	Suspected of causing genetic defects.
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.
H341 Suspected of causing genetic defects.
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.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

Hazard components for labelling

Phenol

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



Article No.: 2 05610 BN001 epple-easy 5610-neu
 Print date 30.09.2021 Revision date 30.09.2021
 Version 4.2 Issue date 30.09.2021

EN
 Page 2 / 12

Formaldehyde, polymer with 1,3-benzenedimethanamine and phenol
 m-phenylenebis(methylamine)

Supplemental hazard information

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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-%
292-587-7 90640-66-7	01-2119487290-37 Acute Tox. 4 H302 / Acute Tox. 4 H312 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	24,9 - 49,9
500-137-0 57214-10-5	01-2119966906-20 Formaldehyde, polymer with 1,3-benzenedimethanamine and phenol Skin Corr. 1C H314 / Skin Sens. 1B H317 / Aquatic Chronic 3 H412	24,9 - 49,9
202-859-9 100-51-6	01-2119492630-38 benzyl alcohol	9,9 - 19,9
603-057-00-5	Acute Tox. 4 H332 / Acute Tox. 4 H302	
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. 1 H317 / Aquatic Chronic 3 H412	9,9 - 19,9
203-180-0 104-15-4	01-2119538811-39 Toluene-4-sulfonic acid	2,4 - 9,9
016-030-00-2	Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335	
203-632-7 108-95-2	01-2119471329-32 Phenol	2,4 - 9,9
604-001-00-2	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	
236-675-5 13463-67-7	01-2119489379-17 Carc. 2 H351	0,9 - 2,4
200-712-3 69-72-7	01-2119486984-17 salicylic acid	0,9 - 2,4
607-732-00-5	Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Repr. 2 H361 / STOT SE 3 H335	

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

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



Article No.: 2 05610 BN001 epple-easy 5610-neu
Print date 30.09.2021 Revision date 30.09.2021
Version 4.2 Issue date 30.09.2021

EN
Page 4 / 12

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/m³; 5 ppm

STEL: 39 mg/m³; 10 ppm

EC No. 236-675-5 / CAS No. 13463-67-7

TWA: 10 mg/m³

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/m³

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

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/m³

EC No. 236-675-5 / CAS No. 13463-67-7

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

Toluene-4-sulfonic acid

Index No. 016-030-00-2 / EC No. 203-180-0 / CAS No. 104-15-4

DNEL long-term dermal (systemic), Workers: 7,6 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 53,6 mg/m³

Formaldehyde, polymer with 1,3-benzenedimethanamine 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/cm²

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

DNEL long-term dermal (systemic), Workers: 0,385 µg/cm²

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

DNEL acute inhalative (systemic), Workers: 2 mg/m³

DNEL long-term inhalative (local), Workers: 0,6 mg/m³

DNEL long-term inhalative (systemic), Workers: 0,02 mg/m³

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

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



Article No.: 2 05610 BN001 epple-easy 5610-neu
Print date 30.09.2021 Revision date 30.09.2021
Version 4.2 Issue date 30.09.2021

EN
Page 5 / 12

PNEC, soil: 136 µg/kg
PNEC sewage treatment plant (STP): 2,1 mg/L

EC No. 236-675-5 / CAS No. 13463-67-7
PNEC aquatic, freshwater: 0,127 mg/L
PNEC aquatic, marine water: 1 mg/L
PNEC aquatic, intermittent release: 0,61 mg/L
PNEC sediment, freshwater: 1000 mg/kg
PNEC sediment, marine water: 100 mg/kg
PNEC, soil: 100 mg/kg
PNEC sewage treatment plant (STP): 100 mg/L
PNEC Secondary Poisoning: 1667 mg/kg

Toluene-4-sulfonic acid
Index No. 016-030-00-2 / EC No. 203-180-0 / CAS No. 104-15-4
PNEC aquatic, freshwater: 0,73 mg/L
PNEC aquatic, marine water: 0,0073 mg/L
PNEC aquatic, intermittent release: 0,073 mg/L
PNEC sediment, freshwater: 0,0577 mg/kg
PNEC sediment, marine water: 0,0057 mg/kg
PNEC, soil: 0,016 mg/kg
PNEC sewage treatment plant (STP): 58 mg/L

Formaldehyde, polymer with 1,3-benzenedimethanamine 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

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:

white

Odour:

characteristic

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



Article No.: 2 05610 BN001 epple-easy 5610-neu
Print date 30.09.2021 Revision date 30.09.2021
Version 4.2 Issue date 30.09.2021

EN
Page 6 / 12

Odour threshold:	not applicable
pH at 20 °C:	not relevant
Melting point/freezing point:	-15 °C Source: benzyl alcohol
Initial boiling point and boiling range:	206 °C Source: benzyl alcohol
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-% Source: benzyl alcohol
Upper explosion limit:	13 Vol-% Source: benzyl alcohol
Vapour pressure at 20 °C:	0,027 mbar Source: benzyl alcohol
Vapour density:	not applicable
Relative density:	
Density at 20 °C:	1,15 g/cm³
Solubility(ies):	
Water solubility at 20 °C:	partially miscible
Partition coefficient: n-octanol/water:	see section 12
Auto-ignition temperature:	435 °C Source: benzyl alcohol
Decomposition temperature:	not applicable
Viscosity at °C:	8 - 15 Pa*s
Explosive properties:	not applicable
Oxidising properties:	not applicable
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

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



Article No.: 2 05610 BN001 epple-easy 5610-neu
Print date 30.09.2021 Revision date 30.09.2021
Version 4.2 Issue date 30.09.2021

EN
Page 7 / 12

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: 650 mg/kg
dermal, LD50, Rabbit: 850 - 1400 mg/kg
inhalative (vapours), LC50, Rat: 0,9 mg/L (8 h)
oral, LD50, Rat: > 5000 mg/kg
Method: OECD 420
inhalative (dust and mist), LC50, Rat: > 6,82 mg/L (4 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)

salicylic acid

oral, LD50, Rat: 891 mg/kg

Toluene-4-sulfonic acid

oral, LD50, Rat: > 1104 mg/kg
inhalative (vapours), LC50, Rat: 50 - 100 mg/kg (8 h)

Formaldehyde, polymer with 1,3-benzenedimethanamine and phenol

oral, LD50, Rat: > 2000 mg/kg
Method: OECD 425
dermal, LD50, Rat: > 2020 mg/kg
Method: OECD 402

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
Skin:, Rabbit: Evaluation non-irritant.
Method: OECD 404
Eyes:, Rabbit.: Evaluation non-irritant.
Method: OECD 405

m-phenylenebis(methylamine)

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

Toluene-4-sulfonic acid

eyes, Rabbit: Evaluation corrosive
Skin, Rabbit: Evaluation corrosive
Method: OECD 404

Respiratory or skin sensitisation

May cause an allergic skin reaction.

benzyl alcohol

Skin, Guinea pig: ; Evaluation not sensitising.
Method: OECD 406
Skin, Mouse: ; Evaluation not sensitising.
Method: OECD 429

Formaldehyde, polymer with 1,3-benzenedimethanamine and phenol

Skin, Mouse: ; Evaluation sensitising
Method: OECD 429

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Suspected of causing genetic defects.

Formaldehyde, polymer with 1,3-benzenedimethanamine 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)

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 61 mg/L (72 h)

Method: EPA-600/9-78-018

Bacterial toxicity, EC50, Activated sludge: > 1000 (3 h)

Method: OECD 209

Toluene-4-sulfonic acid

Daphnia toxicity, EC50: > 103 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50: 73 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, EC50: > 650 mg/L (3 h)

Method: OECD 209

Formaldehyde, polymer with 1,3-benzenedimethanamine and phenol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 25,9 mg/L (96 h)

Method: OECD 203

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



Article No.: 2 05610 BN001 epple-easy 5610-neu
Print date 30.09.2021 Revision date 30.09.2021
Version 4.2 Issue date 30.09.2021

EN
Page 9 / 12

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

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

Toluene-4-sulfonic acid
Algae toxicity, NOEC: 44,8 mg/L (72 h)
Method: OECD 201
Bacteria toxicity, NOEC: 580 mg/L (3 h)
Method: OECD 209

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
Toluene-4-sulfonic acid
Biodegradation: > 60 % (28 h); Evaluation Readily biodegradable
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
Toluene-4-sulfonic acid
Partition coefficient: n-octanol/water: 0,41

Bioconcentration factor (BCF)

Phenol
Bioconcentration factor (BCF), Leuciscus idus (golden orfe): 20
Bioconcentration factor (BCF), Pimephales promelas (fathead minnow): 1276 x10⁴
Bioconcentration factor (BCF), Daphnia magna (Big water flea): 277
m-phenylenebis(methylamine)
Bioconcentration factor (BCF): 2,69

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. 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.

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



Article No.: 2 05610 BN001 epple-easy 5610-neu
Print date 30.09.2021 Revision date 30.09.2021
Version 4.2 Issue date 30.09.2021

EN
Page 10 / 12

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.

(m-phenylenbis(methylamine))

Sea transport (IMDG):

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

(m-phenylenbis(methylamine), Amine, Polyethylenpoly-,

Tetraethylenpentaminanteil)

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

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

(m-phenylenbis(methylamine))

14.3. Transport hazard class(es)

8

14.4. Packing group

II

14.5. Environmental hazards

Land transport (ADR/RID)

UMWELTGEFÄHRDEND

Marine pollutant

p / Amine, Polyethylenpoly-, Tetraethylenpentaminanteil

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

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

VOC-value (in g/L): 152

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 information

DSL no information

IECSC no information

KECI no information

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



Article No.: 2 05610 BN001 epple-easy 5610-neu
 Print date 30.09.2021 Revision date 30.09.2021
 Version 4.2 Issue date 30.09.2021

EN
 Page 11 / 12

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.
292-587-7 90640-66-7		01-2119487290-37
500-137-0 57214-10-5	Formaldehyde, polymer with 1,3-benzenedimethanamine and phenol	01-2119966906-20
202-859-9 100-51-6	benzyl alcohol	01-2119492630-38
216-032-5 1477-55-0	m-phenylenebis(methylamine)	01-2119480150-50
203-180-0 104-15-4	Toluene-4-sulfonic acid	01-2119538811-39
203-632-7 108-95-2	Phenol	01-2119471329-32
236-675-5 13463-67-7		01-2119489379-17
200-712-3 69-72-7	salicylic acid	01-2119486984-17

SECTION 16: Other information *

Full text of classification in section 3:

Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful 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.
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.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
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 exposure cause the hazard).
Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of 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.

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



Article No.: 2 05610 BN001 epple-easy 5610-neu
Print date 30.09.2021 Revision date 30.09.2021
Version 4.2 Issue date 30.09.2021

EN
Page 12 / 12

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.
Muta. 2	Germ cell mutagenicity	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