

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



Article No.: 2 04851 00000 epple 4851
Print date 24.01.2019 Revision date 24.01.2019
Version 4.1 Issue date 24.01.2019

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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 04851 00000
Trade name/designation epple 4851
Adhesive

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

Dept. 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].

Flam. Liq. 2 / H225

Flammable liquids

Highly flammable liquid and vapour.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

Skin Sens. 1 / H317

Respiratory or skin sensitisation

May cause an allergic skin reaction.

STOT SE 3 / H336

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

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

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

H317

May cause an allergic skin reaction.

H336

May cause drowsiness or dizziness.

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261

Avoid breathing vapours.

P273

Avoid release to the environment.

P280

Wear protective gloves.

P333 + P313

If skin irritation or rash occurs: Get medical advice/attention.

P501

Dispose of contents/container in accordance with local/regional/ national/international regulations.

Hazard components for labelling

rosin colophony

hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclene

Tetraethylthiuramdisulfide

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Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. **Other hazards**

No information available.

SECTION 3: Composition / information on ingredients

3.2. **Mixtures**

Description synthetic resin solution

Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH No. Designation classification: // Remark	Wt %
920-750-0	01-2119473851-33 hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclene STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411 / Flam. Liq. 2 H225	24,9 - 49,9
205-500-4 141-78-6 607-022-00-5	01-2119475103-46 Ethyl acetate Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	24,9 - 49,9
204-658-1 123-86-4 607-025-00-1	01-2119485493-29 n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336	0,9 - 2,4
232-475-7 8050-09-7 650-015-00-7	01-2119480418-32 rosin colophony Skin Sens. 1 H317	0,9 - 2,4
215-222-5 1314-13-2 030-013-00-7	01-2119463881-32 zinc oxide Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	0,1 - 0,9
202-607-8 97-77-8	01-2119555278-30 Tetraethylthiuramdisulfide Acute Tox. 4 H302 / Acute Tox. 4 H332 / Skin Sens. 1 H317 / STOT RE 2 H373 / Aquatic Acute 1 H400 (M = 10) / Aquatic Chronic 1 H410 (M = 10)	0,1 - 0,9
204-327-1 119-47-1	01-2119496065-33 2,2methylenebis(6-T-butyl-4-methylphenole) Repr. 2 H361 / Aquatic Chronic 4 H413	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.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm.

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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 formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

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. Floors must be electrically conductive.

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 15 °C and 25 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access

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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

Ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

TWA: 730 mg/m³; 200 ppm

STEL: 1460 mg/m³; 400 ppm

n-butyl acetate

INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

TWA: 724 mg/m³; 150 ppm

STEL: 966 mg/m³; 200 ppm

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

Ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

DNEL short-term oral (acute), Workers:

DNEL long-term dermal (systemic), Workers: 63 mg/kg bw/day

DNEL acute inhalative (local), Workers: 1468 mg/m³

DNEL acute inhalative (systemic), Workers: 1468 mg/m³

DNEL long-term inhalative (local), Workers: 734 mg/m³

DNEL long-term inhalative (systemic), Workers: 734 mg/m³

DNEL short-term oral (acute), Consumer:

DNEL long-term dermal (systemic), Consumer: 37 mg/kg bw/day

n-butyl acetate

INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

DNEL acute dermal, short-term (systemic), Workers: 11 mg/kg

DNEL long-term dermal (systemic), Workers: 11 mg/kg

DNEL acute inhalative (local), Workers: 960 mg/m³

DNEL acute inhalative (systemic), Workers: 960 mg/m³

DNEL long-term inhalative (local), Workers: 480 mg/m³

DNEL long-term inhalative (systemic), Workers: 480 mg/m³

zinc oxide

INDEX No. 030-013-00-7 / EC No. 215-222-5 / CAS No. 1314-13-2

DNEL long-term dermal (systemic), Workers: 83,3 mg/kg bw/day

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

2,2methylenebis(6-T-butyl-4-methylphenole)

EC No. 204-327-1 / CAS No. 119-47-1

DNEL short-term oral (acute), Workers: 1,59 mg/kg bw/day

DNEL long-term oral (repeated), Workers: 0,318 mg/kg bw/day

DNEL acute dermal, short-term (systemic), Workers: 1,59 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 0,318 mg/kg bw/day

DNEL acute inhalative (systemic), Workers: 5,5 mg/m³

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

hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclene

EC No. 920-750-0

DNEL long-term dermal (systemic), Workers: 773 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 2035 mg/m³

PNEC:

Ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

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PNEC aquatic, freshwater: 0,26 mg/l
PNEC aquatic, marine water: 0,026 mg/l
PNEC aquatic, intermittent release: 1,65 mg/l
PNEC sediment, freshwater: 1,25 mg/kg
PNEC sediment, marine water: 0,125 mg/kg
PNEC, soil: 0,24 mg/kg
PNEC sewage treatment plant (STP): 650 mg/l

n-butyl acetate

INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

PNEC aquatic, freshwater: 0,18 mg/l
PNEC aquatic, marine water: 0,018 mg/l
PNEC aquatic, intermittent release: 0,36 mg/l
PNEC sediment, freshwater: 0,981 mg/kg
PNEC sediment, marine water: 0,0981 mg/kg
PNEC, soil: 0,0903 mg/kg
PNEC sewage treatment plant (STP): 35,6 mg/l

zinc oxide

INDEX No. 030-013-00-7 / EC No. 215-222-5 / CAS No. 1314-13-2

PNEC aquatic, freshwater: 20,6 µg/l
PNEC aquatic, marine water: 6,1 µg/l
PNEC sediment, freshwater: 117,8 mg/kg
PNEC sediment, marine water: 56,5 mg/kg
PNEC, soil: 35,6 mg/kg
PNEC sewage treatment plant (STP): 52 µg/l

2,2methylenebis(6-T-butyl-4-methylphenole)

EC No. 204-327-1 / CAS No. 119-47-1

PNEC aquatic, freshwater: 6,8 µg/l
PNEC aquatic, marine water: 0,68 µg/l
PNEC sediment, freshwater: 102 mg/kg d.w.
PNEC sediment, marine water: 10,2 mg/kg d.w.
PNEC, soil: 20 mg/kg d.w.
PNEC sewage treatment plant (STP): 100 mg/l

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. 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. Recommendation: Half-face mask (DIN EN 140) Filter type: ABEK-P2

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 (maximum wearing 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

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

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

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

Appearance:

Physical state: Liquid
Colour: white

Odour: like Solvents

Odour threshold: not applicable

pH at 20 °C: not applicable

Melting point/freezing point: -83 °C
Source: Ethyl acetate

Initial boiling point and boiling range: 77 °C
Source: Ethyl acetate

Flash point: -4 °C

Evaporation rate: 1,0 mg/s
Source: n-butyl acetate

flammability

Burning time (s): not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit: 0,6 Vol-%
Source: hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclene

Upper explosion limit: 12,8 Vol-%
Source: Ethyl acetate

Vapour pressure at 20 °C: 98,4 mbar
Source: Ethyl acetate

Vapour density: not applicable

Relative density:
Density at 20 °C: 1,10 g/cm³

Solubility(ies):
Water solubility (g/L) at 20 °C: insoluble

Partition coefficient: n-octanol/water: see section 12

Auto-ignition temperature: 201 °C
Source: hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclene

Decomposition temperature: not applicable

Viscosity at °C: 9 - 12 Pa*s

Explosive properties: not applicable

Oxidising properties: not applicable

9.2. **Other information**

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

Ethyl acetate

oral, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rabbit: > 18000 mg/kg
inhalative (vapours), LC50, Rat: > 22,5 mg/l (6 h)

n-butyl acetate

oral, LD50, Rat: 10760 mg/kg
Method: OECD 423
dermal, LD50, Rabbit: > 14112 mg/kg
Method: OECD 402
inhalative (vapours), LC50, Rat: 23,4 mg/l (4 h)
Method: OECD 403

rosin colophony

oral, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rat: > 2000 mg/kg

zinc oxide

oral, LD50, Rat: > 5000 mg/kg
inhalative (dust and mist), LC50, Rat: > 5700 mg/l (4 h)

2,2methylenebis(6-T-butyl-4-methylphenole)

oral, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rabbit: > 10000 mg/kg

hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclene

oral, LD50, Rat: > 5000 mg/kg
Method: OECD 401
dermal, LD50, Rabbit: > 2800 mg/kg
Method: OECD 402
inhalative (vapours), LC50, Rat: > 23,3 mg/l (4 h)
Method: OECD 403

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes serious eye irritation.

Ethyl acetate

eyes, Rabbit: evaluation mild irritant.
Method: OECD 405
Skin, Rabbit (4 h): evaluation Not an irritant.

2,2methylenebis(6-T-butyl-4-methylphenole)

eyes, Rabbit: evaluation Mechanical irritation possible
Method: OECD 405
Skin, Rabbit: evaluation Not an irritant.
Method: OECD 404

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Ethyl acetate

Skin, Guinea pig: ; evaluation not sensitising.
Method: OECD 406

zinc oxide

Skin, Guinea pig: ; evaluation not sensitising.

2,2methylenebis(6-T-butyl-4-methylphenole)

Skin, human.: ; evaluation not sensitising.
Method: patch test

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

2,2methylenebis(6-T-butyl-4-methylphenole)

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Germ cell mutagenicity; evaluation negative.
Method: OECD 471 (Ames test)

STOT-single exposure; STOT-repeated exposure

May cause drowsiness or dizziness.

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]
Do not allow to enter into surface water or drains.

12.1. Toxicity

Ethyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 230 mg/l (96 h)
Bacteria toxicity, NOEC:, Pseudomonas putida: 650 mg/l (16 h)

n-butyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 18 mg/l (96 h)
Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 44 mg/l (48 h)

Algae toxicity, EC50:, Desmodesmus subspicatus: 647,7 mg/l (72 h)

Algae toxicity, NOEC:, Desmodesmus subspicatus: 200 mg/l

Fish toxicity, LC50, Leuciscus idus (golden orfe): 71 mg/l (48 h)

Fish toxicity, LC50:, Brachydanio rerio (zebra-fish): 62 mg/l (96 h)

Bacterial toxicity:, EC50:, Pseudomonas putida: 115 mg/l (16 h)

Method: DIN 38412 / part 8

Bacterial toxicity:, EC10:, Pseudomonas putida: 959 mg/l (18 h)

Method: DIN 38412 / part 8

Bacterial toxicity:, EC0, Pseudomonas putida: 115 mg/l (16)

rosin colophony

Fish toxicity, LC50, Brachydanio rerio (zebra-fish): ≥ 1 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 911 mg/l (48 h)

Algae toxicity, EC50, Scenedesmus subspicatus: 410 mg/l (72 h)

zinc oxide

Algae toxicity, IC50:, Pseudokirchneriella subcapitata: 0,136 mg/l (72 h)

Method: OECD 201

2,2methylenebis(6-T-butyl-4-methylphenole)

Fish toxicity, LC50, Oryzias latipes (Ricefish): > 5 mg/l (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): $> 4,8$ mg/l (48 h)

Method: OECD 202

Algae toxicity, EC50, Pseudokirchneriella subcapitata: > 5 mg/l (72 h)

Method: OECD 201

hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclene

Fish toxicity, LL50, Oncorhynchus mykiss (Rainbow trout): $> 13,4$ mg/l (96 h)

Daphnia toxicity, EL50, Daphnia magna (Big water flea): 3 mg/l (48 h)

Algae toxicity, NOELR, Pseudokirchneriella subcapitata: 10 mg/l (72 h)

Algae toxicity, EL50, Pseudokirchneriella subcapitata 10 - 30 mg/l (72 h)

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

Ethyl acetate

Fish toxicity, NOEC, Pimephales promelas (fathead minnow): $< 9,65$ mg/l (32 d)

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Daphnia toxicity, NOEC, Daphnia magna: 2,4 mg/l (21 d)
Bacteria toxicity, NOEC, Pseudomonas putida: 650 mg/l (16 h)
Method: DIN 38412

2,2methylenebis(6-T-butyl-4-methylphenole)
Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 0,34 mg/l (21 d)
Method: OECD 211
Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 1,3 mg/l (72 h)
Method: OECD 201

12.2. Persistence and degradability

Ethyl acetate

Biodegradation, aerobic: 69 % (20 d); evaluation Readily biodegradable

n-butyl acetate

Biodegradation: 83 % (28 d); evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 301D

2,2methylenebis(6-T-butyl-4-methylphenole)

Biodegradation: (28 d)evaluation not biodegradable

Method: OECD 301C

hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclene

Biodegradation: 98 % (28 d)

The statement is derived from products of similar structure or composition.

12.3. Bioaccumulative potential

n-butyl acetate

Partition coefficient: n-octanol/water: 1,81 - 2,3

Method: OECD 117

2,2methylenebis(6-T-butyl-4-methylphenole)

Partition coefficient: n-octanol/water: 6,25

Bioconcentration factor (BCF)

Ethyl acetate

Bioconcentration factor (BCF), Leuciscus idus (golden orfe): 30

2,2methylenebis(6-T-butyl-4-methylphenole)

Bioconcentration factor (BCF): 840

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.

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

Dispose of packaging and contaminated filters at a official hazardous waste incinerator facility.

Recommendation:

Waste codes / waste designations according to EWC / AVV: 15 01 10*

SECTION 14: Transport information

14.1. UN number

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14.2. UN proper shipping name

Land transport (ADR/RID): Resin solution
Sea transport (IMDG): RESIN SOLUTION
Air transport (ICAO-TI / IATA-DGR): Resin solution

14.3. Transport hazard class(es)

3

14.4. Packing group

Land transport (ADR/RID): III
for packages > 450 litres: II
Sea transport (IMDG): III
for packages > 30 litres: II
Air transport (ICAO-TI / IATA-DGR): III
for packages > 30 litres: II

14.5. Environmental hazards

Land transport (ADR/RID) UMWELTGEFÄHRDEND
Marine pollutant p / hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

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
for packages > 450 litres: D/E
special prescription 640D

Sea transport (IMDG)

EmS-No. F-E, S-E

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

VOC-value (in g/L): 630

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 keine Information (AICSK-EN.rtf)
DSL keine Information (DSLK-EN.rtf)
IECSC keine Information (IECSCK-EN.rtf)
KECI keine Information (KECIK-EN.rtf)
MITI keine Information (MITIK-EN.rtf)
PICCS keine Information (PICCSK-EN.rtf)
No information of listing in TOXIC SUBSTANCES CONTROL ACT (TSCA)

15.2. Chemical Safety Assessment *

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

EC No.	Designation	REACH No.
CAS No.		

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



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920-750-0	hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclene	01-2119473851-33
205-500-4	Ethyl acetate	01-2119475103-46
141-78-6		
204-658-1	n-butyl acetate	01-2119485493-29
123-86-4		
232-475-7	rosin colophony	01-2119480418-32
8050-09-7		
215-222-5	zinc oxide	01-2119463881-32
1314-13-2		
202-607-8	Tetraethylthiuramdisulfide	01-2119555278-30
97-77-8		
204-327-1	2,2methylenebis(6-T-butyl-4-methylphenole)	01-2119496065-33
119-47-1		

SECTION 16: Other information *

Full text of classification in section 3

STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Skin Sens. 1 / 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.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
STOT RE 2 / H373	Specific target organ toxicity (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).
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).
Aquatic Chronic 4 / H413	Hazardous to the aquatic environment	May cause long lasting harmful effects to aquatic life.

Classification procedure

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

Flam. Liq. 2	Flammable liquids	On basis of test data.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
STOT SE 3	Specific target organ toxicity (single 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

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



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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 EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 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