

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



Article No.: 1 00037 KN000 epple 37-new / cartridge  
Print date 28.11.2023 Revision date 28.11.2023  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Article No. (manufacturer/supplier): 1 00037 KN000  
Trade name/designation epple 37-new / cartridge  
Sealant  
UFI: 0CJ0-E069-600C-FYTQ

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

**Relevant identified uses:**

Sealing material for the sealing of different parts / buildinggroups

**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].

|                     |                                   |                                      |
|---------------------|-----------------------------------|--------------------------------------|
| 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    | STOT-single exposure              | May cause drowsiness or dizziness.   |

**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.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours.  
P280 Wear protective gloves.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazard components for labelling**

Hexamethylenetetramine  
butanone  
Cashew, nutshell liquid

**Supplemental hazard information**

EUH066 Repeated exposure may cause skin dryness or cracking.  
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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**2.3. Other hazards**

No information available.

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

**3.2. Mixtures** \*

**Description** Phenolic resin based sealant

**Hazardous ingredients**

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

| EC No.<br>CAS No.<br>Index No.        | REACH No.<br>Designation<br>classification: // Remark   | weight-%    |
|---------------------------------------|---|-------------|
| 201-159-0<br>78-93-3<br>606-002-00-3  | 01-2119457290-43<br>butanone<br>Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066   | 19,9 - 24,9 |
| 236-675-5<br>13463-67-7               | 01-2119489379-17<br>Titanium dioxide<br>Carc. 2 H351  | 2,4 - 9,9   |
| 200-751-6<br>71-36-3<br>603-004-00-6  | 01-2119484630-38<br>butan-1-ol<br>Flam. Liq. 3 H226 / Acute Tox. 4 H302 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H336<br>Acute toxicity estimate (ATE): ATE (oral): 2292 mg/kg bw  | 0,9 - 2,4   |
| 202-905-8<br>100-97-0<br>612-101-00-2 | 01-2119474895-20<br>Hexamethylenetetramine<br>Flam. Sol. 2 H228 / Skin Sens. 1 H317   | 0,9 - 2,4   |
| 232-355-4<br>8007-24-7                | 01-2119502450-57<br>Cashew, nutshell liquid<br>Acute Tox. 4 H302 / Acute Tox. 4 H312 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412<br>Acute toxicity estimate (ATE): ATE (oral): 1000 mg/kg bw / ATE (dermal): 2000 mg/kg bw  | 0,1 - 0,9   |
| 203-632-7<br>108-95-2<br>604-001-00-2 | 01-2119471329-32<br>Phenol<br>Muta. 2 H341 / Acute Tox. 3 H331 / Acute Tox. 3 H311 / Acute Tox. 3 H301 / STOT RE 2 H373 / Skin Corr. 1B H314<br>Specific concentration limit (SCL): Skin Corr. 1B H314 >= 3 / Skin Irrit. 2 H315 >= 1 / Eye Irrit. 2 H319 >= 1<br>Acute toxicity estimate (ATE): ATE (oral): 340 mg/kg bw / ATE (inhalation, vapour): 0,31 mg/L | 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 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 5 °C and 30 °C. Protect

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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**

butanone

Index No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

TWA: 600 mg/m<sup>3</sup>; 200 ppm

STEL: 899 mg/m<sup>3</sup>; 300 ppm

Titanium dioxide

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

TWA: 10 mg/m<sup>3</sup>

Remark: inhalable aerosol

butan-1-ol

Index No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

STEL: 154 mg/m<sup>3</sup>; 50 ppm

Phenol

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

TWA: 7,8 mg/m<sup>3</sup>; 2 ppm

STEL: 16 mg/m<sup>3</sup>; 4 ppm

**Additional information**

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

**DNEL:**

butan-1-ol

Index No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

DNEL long-term inhalative (local), Workers: 310 mg/m<sup>3</sup>

butanone

Index No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

DNEL long-term dermal (systemic), Workers: 1161 mg/kg

DNEL long-term inhalative (systemic), Workers: 600 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 31 mg/kg

DNEL acute dermal, short-term (local), Consumer: 412 mg/kg

DNEL long-term inhalative (systemic), Consumer: 106 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>

Titanium dioxide

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

DNEL long-term inhalative (systemic), Workers: 10 mg/m<sup>3</sup>

Cashew, nutshell liquid

EC No. 232-355-4 / CAS No. 8007-24-7

DNEL long-term dermal (systemic), Workers: 0,5 mg/kg

DNEL long-term inhalative (systemic), Workers: 0,88 mg/m<sup>3</sup>

**PNEC:**

butan-1-ol

Index No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

PNEC aquatic, freshwater: 0,082 mg/L

PNEC aquatic, marine water: 0,0082 mg/L

PNEC aquatic, intermittent release: 2,25 mg/L

PNEC sediment, freshwater: 0,178 mg/kg

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PNEC sediment, marine water: 0,0178 mg/kg  
PNEC, soil: 0,015 mg/kg  
PNEC sewage treatment plant (STP): 2476 mg/L

butanone

Index No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

PNEC aquatic, freshwater: 55,8 mg/L  
PNEC aquatic, marine water: 55,8 mg/L  
PNEC aquatic, intermittent release: 55,8 mg/L  
PNEC sediment, freshwater: 284,7 mg/kg  
PNEC sediment, marine water: 284,7 mg/kg  
PNEC, soil: 22,5 mg/kg

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

Titanium dioxide

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

## 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.

Use filter / combination filter according to EN 14387.

Suitable respiratory protection apparatus: ABEK-P2

#### **Hand protection**

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material > 0,4 mm ; 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 eye glasses with side protection according to EN 166.

#### **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**

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

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|   |  |
|---|--|
| <b>Physical state:</b>                          | <b>Liquid</b>                              |
| <b>Appearance:</b>                              | <b>viscous</b>                             |
| <b>Colour:</b>                                  | <b>grey</b>                                |
| <b>Odour:</b>                                   | <b>characteristic</b>                      |
| <b>Odour threshold:</b>                         | <b>not applicable</b>                      |
| <b>Melting point/freezing point:</b>            | <b>-89 °C</b><br>Source: butan-1-ol        |
| <b>Initial boiling point and boiling range:</b> | <b>80 °C</b><br>Source: butanone           |
| <b>Flammability:</b>                            | <b>Highly flammable liquid and vapour.</b> |
| <b>Lower and upper explosion limit:</b>         |  |
| <b>Lower explosion limit:</b>                   | <b>1,4 Vol-%</b><br>Source: butan-1-ol     |
| <b>Upper explosion limit:</b>                   | <b>11,5 Vol-%</b><br>Source: butanone      |
| <b>Flash point:</b>                             | <b>-4 °C</b>                               |
| <b>Auto-ignition temperature:</b>               | <b>325 °C</b><br>Source: butan-1-ol        |
| <b>Decomposition temperature:</b>               | <b>not applicable</b>                      |
| <b>pH at 20 °C:</b>                             | <b>not relevant</b>                        |
| <b>Cinematic viscosity (40°C):</b>              | <b>&gt; 52631,58 mm<sup>2</sup>/s</b>      |
| <b>Viscosity at 20 °C:</b>                      | <b>80 - 190 Pa*s</b>                       |
| <b>Solubility(ies):</b>                         |  |
| <b>Water solubility at 20 °C:</b>               | <b>insoluble</b>                           |
| <b>Partition coefficient: n-octanol/water:</b>  | <b>see section 12</b>                      |
| <b>Vapour pressure at 20 °C:</b>                | <b>105 mbar</b><br>Source: butanone        |
| <b>Density and/or relative density:</b>         |  |
| <b>Density at 20 °C:</b>                        | <b>1,52 g/cm<sup>3</sup></b>               |
| <b>Relative vapour density:</b>                 | <b>not applicable</b>                      |
| <b>particle characteristics:</b>                | <b>not applicable</b>                      |

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**

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

\*

### Acute toxicity

#### butan-1-ol

oral, LD50, Rat: 2292 mg/kg  
Method: OECD 401  
dermal, LD50, Rabbit  
Method: OECD 402

#### butanone

oral, LD50, Rat: 2193 mg/kg  
Method: OECD 403  
dermal, LD50, Rabbit: 8050 mg/kg  
Method: OECD 402

#### Phenol

oral, LD50, Rat: 340 mg/kg  
dermal, LD50, Rabbit 850 - 1400 mg/kg  
inhalative (dust and mist), LC50, Rat: 0,316 mg/L (4 h)  
inhalative (vapours), LC50, Rat: 0,9 mg/L (8 h)

#### Titanium dioxide

oral, LD50, Rat: > 5000 mg/kg  
Method: OECD 420  
inhalative (dust and mist), LC50, Rat: > 6,82 mg/L (4 h)

#### Cashew, nutshell liquid

oral, LD50, Rat: > 1000 mg/kg  
dermal, LD50, Rat: > 2000 mg/kg

#### Hexamethylenetetramine

oral, LD50, Rat: > 20000 mg/kg

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

Causes serious eye irritation.

#### Titanium dioxide

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

#### Cashew, nutshell liquid

Skin: Evaluation Irritant  
eyes: Evaluation Risk of serious damage to eyes.

### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### Titanium dioxide

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

#### Cashew, nutshell liquid

Skin, Guinea pig: ; Evaluation strong sensitising  
Method: OECD 429

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

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

### 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

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of



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natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### 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 .

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

No information available.

### SECTION 12: Ecological information

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

Do not allow to enter into surface water or drains.

#### 12.1. Toxicity

##### butan-1-ol

Fish toxicity, LC50, Pimephales promelas (fathead minnow) (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna: 1328 mg/L (48 h)

Method: OECD 202

Algae toxicity, EC50:, Selenastrum capricornutum: 225 mg/L (96 h)

Method: OECD 201

Bacterial toxicity:, EC10, Pseudomonas putida: 2476 mg/L (17 h)

Method: DIN 38412

##### butanone

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 2993 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 308 mg/L (48 h)

Method: OECD 202

##### 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)

##### Titanium dioxide

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

##### Cashew, nutshell liquid

Fish toxicity, LL50:, Cyprinodon variegatus: > 1000 mg/L (48 h)

Daphnia toxicity, LL50, Tisbe furcata: > 1000 mg/L (48 h)

Daphnia toxicity, EL50:, Daphnia magna (Big water flea): 40,46 mg/L (48 h)

##### Hexamethylenetetramine

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 55600 mg/L (96 h)

Method: Flow test

Daphnia toxicity, EC50, Daphnia magna (Big water flea) 29868 - 43390 mg/L (48 h)

#### Long-term Ecotoxicity

##### Cashew, nutshell liquid

Bacterial toxicity:, NOEC:, Activated sludge: 100 mg/L (28 d)

#### 12.2. Persistence and degradability

##### butanone

oxygen consumption: 98 % (28 d)



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**12.3. Bioaccumulative potential** \*

butanone

Partition coefficient: n-octanol/water: 0,3

Phenol

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

Hexamethylenetetramine

Partition coefficient: n-octanol/water: -2,18

**Bioconcentration factor (BCF)**

Phenol

Bioconcentration factor (BCF), Leuciscus idus (golden orfe): 20

Bioconcentration factor (BCF), Pimephales promelas (fathead minnow): 1276 x10<sup>4</sup>9

Bioconcentration factor (BCF), Daphnia magna (Big water flea): 277

**12.4. Mobility in soil**

Toxicological data are not available.

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Endocrine disrupting properties**

No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

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

Observe in addition any national regulations!

**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\*

Non-contaminated packages may be recycled.

**SECTION 14: Transport information**

**14.1. UN number or ID number**

UN 1866

**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 > 450 litres

II

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Air transport (ICAO-TI / IATA-DGR): III  
for packages > 30 litres: II

**14.5. Environmental hazards**

Land transport (ADR/RID) not applicable  
Marine pollutant not applicable

**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

**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

**SECTION 15: Regulatory information**

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

**EU legislation**

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

VOC-value (in g/L): 331

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

**Further details:**

For professional use only. Product is not intended for consumer use.

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

AICS no information  
DSL no information  
EHS no information  
IECSC listed  
KECI listed  
MITI no information  
NZLoC no information  
PICCS no information  
TCSI no information  
TSCA listet  
MAL-Code: 4-3

**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. |             |           |

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|                         |                         |                  |
|-------------------------|-------------------------|------------------|
| 201-159-0<br>78-93-3    | butanone                | 01-2119457290-43 |
| 236-675-5<br>13463-67-7 | Titanium dioxide        | 01-2119489379-17 |
| 200-751-6<br>71-36-3    | butan-1-ol              | 01-2119484630-38 |
| 202-905-8<br>100-97-0   | Hexamethylenetetramine  | 01-2119474895-20 |
| 232-355-4<br>8007-24-7  | Cashew, nutshell liquid | 01-2119502450-57 |
| 203-632-7<br>108-95-2   | Phenol                  | 01-2119471329-32 |

**SECTION 16: Other information** \*

**Full text of classification in section 3**

|                          |                                      |  |
|--------------------------|--------------------------------------|--|
| Flam. Liq. 2 / H225      | Flammable liquids                    | Highly flammable liquid and vapour.  |
| Eye Irrit. 2 / H319      | Serious eye damage/eye irritation    | Causes serious eye irritation.   |
| STOT SE 3 / H336         | STOT-single exposure                 | May cause drowsiness or dizziness.   |
| 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).  |
| Flam. Liq. 3 / H226      | Flammable liquids                    | Flammable liquid and vapour.   |
| Acute Tox. 4 / H302      | Acute toxicity (oral)                | Harmful if swallowed.  |
| STOT SE 3 / H335         | STOT-single exposure                 | May cause respiratory irritation.  |
| Skin Irrit. 2 / H315     | Skin corrosion/irritation            | Causes skin irritation.  |
| Eye Dam. 1 / H318        | Serious eye damage/eye irritation    | Causes serious eye damage.   |
| Flam. Sol. 2 / H228      | flammable solids                     | Flammable solid.   |
| Skin Sens. 1 / H317      | Respiratory or skin sensitisation    | May cause an allergic skin reaction.   |
| Acute Tox. 4 / H312      | Acute toxicity (dermal)              | Harmful in contact with skin.  |
| Aquatic Chronic 3 / H412 | Hazardous to the aquatic environment | Harmful 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 exposure cause the hazard). |
| Skin Corr. 1B / H314     | Skin corrosion/irritation            | Causes severe skin burns and eye damage.   |

**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  | STOT-single exposure              | 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  |

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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 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