| Article<br>Print<br>Versie |   | 288XXX<br>20.09.2021<br>2.2   | Brush Pen Covering<br>Revision date: 20.0<br>Issue date: 20.09.2 | 9.2021  | 53361 GB<br>Page 1 / 13  | Seit 1892 |
|----------------------------|---|---|--|---|--|-----------|
| SEC                        | SECTION 1: Identification of the substance/mixture and of the company/undertaking |   |  |   |  |           |
| 1.1.                       | product ic  | lentifiers  |  |   |  |           |
|                            |   | (manufacturer/supp<br>ne/designation  | lier)  | 288XXX<br>Brush Pen Covering<br>all colours, all gloss                                |  |           |
| 1.2.                       | Relevant i  | dentified uses of th  | e substance or mix   | ture and uses advis   | ed against   |           |
|                            |   | dentified uses:<br>aint, Varnish).  |  |   |  |           |
|                            |   | sed against:<br>e for products which  | come into contact wit  | h the food stuffs.  |  |           |
| 1.3.                       | Details of  | the supplier of the   | safety data sheet  |   |  |           |
|                            | Heinrich K<br>An der Ros  | u <b>rer/supplier</b><br>önig GmbH & Co.KG<br>senhelle 5<br>liederdorfelden | i  | Telephone: +49 610<br>Telefax: +49 6101 5<br>E-mail: Info@heinri<br>Website: www.hein | 5360 11<br>ch-koenig.de  |           |
|                            | -   | nt responsible for i  | nformation:  |   |  |           |
|                            | Laboratory<br>Only availa   | ,<br>able during office hou   | ırs:   | Telephone: +49 610<br>Mon - Thurs 08:00 t<br>Friday 08:00 - 12:30                     | to 16:00   |           |
|                            |   | mpetent person)   |  | SDB@heinrich-koe  | nig.de   |           |
| 1.4.                       | -   | y telephone number<br>y telephone number                                    | r  | Emergency CONTA<br>GmbH +49 (0)6132   | ACT (24-Hour-Number): (<br>-84463  | ЭВК       |
|                            | Ireland (Éi   | reann)  |  | contact National Po<br>Hospital, Dublin 9 D   | l information: 8am-10pm<br>isons Information Centre<br>OOV2NO, Ireland.<br>: "+353 (0)1 809 2166 " |           |

### **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                    |
|--------------------------|--------------------------------------|
| Eye Irrit. 2 / H319      | Serious eye damage/eye irritation    |
| STOT SE 3 / H335         | STOT-single exposure                 |
| STOT SE 3 / H336         | STOT-single exposure                 |
| Aquatic Chronic 3 / H412 | Hazardous to the aquatic environment |

Highly flammable liquid and vapour. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

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



### Danger

### Hazard statements

| H225 | Highly flammable liquid and vapour.                |
|------|--|
| H319 | Causes serious eye irritation.                     |
| H335 | May cause respiratory irritation.                  |
| H336 | May cause drowsiness or dizziness.                 |
| H412 | Harmful 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. |
|-------------|--|
| P370 + P378 | In case of fire: Use foam to extinguish.   |





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|---|---|--|--|---|
| Ρ   | 9403 + P238   | 5 St   | pre in a well-ventilated place. Keep cool.   |   |
| н   | lazard com  |  | labelling<br>nethylpentan-2-one<br>putyl acetate   |   |
| E   | Supplement<br>EUH066<br>EUH211  |  | <b>formation</b><br>peated exposure may cause skin dryness or cracking.<br>arning! Hazardous respirable droplets may be formed wh  | nen sprayed. Do not breathe spray or mis            |
| 3. <b>C</b>                               | Other hazar   | ds   |  |   |
| Ν   | No informati  | on available.  |  |   |
|   | ON 3: Cor   | mposition <i>l</i>   | information on ingredients   |   |
| 2. N                                      | <i>l</i> ixtures  |  |  | *   |
| D   | Description   | Ad   | rylic resin lacquer  |   |
| С   | Classificatio   | on accordin  | to Regulation (EC) No 1272/2008 [CLP]  |   |
| ********                                  | EC No.  |  | ACH No.  |   |
| С   | CAS No.   |  | signation  | weight-%  |
| Ir  | ndex No.  | cl   | ssification // Remark  |   |
|   | 204-658-1   |  | -2119485493-29-xxxx  |   |
| 1   | 23-86-4   |  | outyl acetate  | 25 < 50   |
| 6   | 607-025-00-   | 1 FI   | nm. Liq. 3 H226 / STOT SE 3 H336   |   |
| 2   | 203-550-1   | •  | -2119473980-30-xxxx  |   |
| 1   | 08-10-1   |  | nethylpentan-2-one   | 20 < 25   |
| 6   | 606-004-00-   | 4 FI   | nm. Liq. 2 H225 / Acute Tox. 4 H332 / Eye Irrit. 2 H   | 1319 / STOT SE 3                                    |
|   |   |  | 35   |   |
| -   | 18-668-5  | 01   | -2119455851-35-xxxx  |   |
| 6   | 64742-95-6  | 01<br>Hy   | -2119455851-35-xxxx<br>drocarbons, C9, aromatics   | 7 < 10  |
| 6   |   | 01<br>Hy<br>4 S  | -2119455851-35-xxxx<br>drocarbons, C9, aromatics<br>OT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304   | 7 < 10  |
| 6<br>6                                    | 64742-95-6<br>649-356-00-   | 01<br>H<br>4 S<br>2  | -2119455851-35-xxxx<br>drocarbons, C9, aromatics<br>OT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304<br>H411 / Flam. Liq. 3 H226   | 7 < 10  |
| 6<br>6<br>2                               | 94742-95-6<br>949-356-00-<br>201-159-0  | 01<br>H<br>4 S<br>2<br>01                                      | -2119455851-35-xxxx<br>drocarbons, C9, aromatics<br>OT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304<br>1411 / Flam. Liq. 3 H226<br>-2119457290-43-xxxx  | 7 < 10<br>4 / Aquatic Chronic                       |
| 6<br>6<br>2<br>7                          | 64742-95-6<br>649-356-00-<br>201-159-0<br>78-93-3   | 01<br>H<br>4 S<br>2<br>01<br>bt                                | -2119455851-35-xxxx<br>drocarbons, C9, aromatics<br>OT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304<br>1411 / Flam. Liq. 3 H226<br>-2119457290-43-xxxx<br>tanone  | 7 < 10<br>4 / Aquatic Chronic<br>7 < 10             |
| 6<br>6<br>2<br>7<br>6                     | 64742-95-6<br>649-356-00-<br>201-159-0<br>78-93-3<br>606-002-00-  | 4 S<br>4 S<br>01<br>5<br>3 Fl                                  | -2119455851-35-xxxx<br>drocarbons, C9, aromatics<br>OT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304<br>H411 / Flam. Liq. 3 H226<br>-2119457290-43-xxxx<br>tanone<br>Im. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336  | 7 < 10<br>4 / Aquatic Chronic<br>7 < 10             |
| 6<br>6<br>2<br>7<br>6<br>2                | 64742-95-6<br>649-356-00-<br>201-159-0<br>78-93-3<br>606-002-00-<br>203-603-9                           | 4 S<br>4 S<br>01<br>bu<br>3 FI<br>01                           | -2119455851-35-xxxx<br>drocarbons, C9, aromatics<br>OT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304<br>H411 / Flam. Liq. 3 H226<br>-2119457290-43-xxxx<br>tanone<br>Im. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336<br>-2119475791-29-xxxx   | 7 < 10<br>4 / Aquatic Chronic<br>7 < 10             |
| 6<br>6<br>7<br>6<br>2<br>1                | 64742-95-6<br>649-356-00-<br>201-159-0<br>78-93-3<br>606-002-00-<br>203-603-9<br>08-65-6                | 4 S<br>4 S<br>01<br>5<br>3 Fl<br>01<br>2-                      | -2119455851-35-xxxx<br>drocarbons, C9, aromatics<br>OT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304<br>1411 / Flam. Liq. 3 H226<br>-2119457290-43-xxxx<br>tanone<br>Im. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336<br>-2119475791-29-xxxx<br>nethoxy-1-methylethyl acetate  | 7 < 10<br>4 / Aquatic Chronic<br>7 < 10             |
| 6<br>6<br>7<br>6<br>2<br>1<br>6           | 64742-95-6<br>649-356-00-<br>201-159-0<br>78-93-3<br>606-002-00-<br>203-603-9<br>08-65-6<br>607-195-00- | 4 S<br>2<br>01<br>3 FI<br>2-<br>7 S                            | -2119455851-35-xxxx<br>drocarbons, C9, aromatics<br>OT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304<br>H411 / Flam. Liq. 3 H226<br>-2119457290-43-xxxx<br>tanone<br>mr. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336<br>-2119475791-29-xxxx<br>nethoxy-1-methylethyl acetate<br>OT SE 3 H336 / Flam. Liq. 3 H226                        | 7 < 10<br>4 / Aquatic Chronic<br>7 < 10             |
| 6<br>6<br>2<br>7<br>6<br>2<br>1<br>6<br>2 | 64742-95-6<br>649-356-00-<br>78-93-3<br>606-002-00-<br>203-603-9<br>08-65-6<br>607-195-00-<br>270-414-6 | 4 S<br>4 S<br>01<br>bu<br>3 FI<br>02-<br>7 S<br>01             | -2119455851-35-xxxx<br>drocarbons, C9, aromatics<br>OT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304<br>4411 / Flam. Liq. 3 H226<br>-2119457290-43-xxxx<br>tanone<br>mr. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336<br>-2119475791-29-xxxx<br>nethoxy-1-methylethyl acetate<br>OT SE 3 H336 / Flam. Liq. 3 H226<br>-2119970968-14-xxxx | 4 / Aquatic Chronic 7 < 10                          |
| 6<br>6<br>2<br>7<br>6<br>2<br>1<br>6<br>2 | 64742-95-6<br>649-356-00-<br>201-159-0<br>78-93-3<br>606-002-00-<br>203-603-9<br>08-65-6<br>607-195-00- | 4 S<br>4 S<br>01<br>bu<br>3 FI<br>7 S<br>01<br>01<br>2-<br>7 S | -2119455851-35-xxxx<br>drocarbons, C9, aromatics<br>OT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304<br>H411 / Flam. Liq. 3 H226<br>-2119457290-43-xxxx<br>tanone<br>mr. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336<br>-2119475791-29-xxxx<br>nethoxy-1-methylethyl acetate<br>OT SE 3 H336 / Flam. Liq. 3 H226                        | 7 < 10<br>7 < 10<br>7 < 10<br>3 < 5<br>0,002 < 0,01 |

#### 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**



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

- 4.2. Most important symptoms and effects, both acute and delayed In all cases of doubt, or when symptoms persist, seek medical advice.
- 4.3. **Indication of any immediate medical attention and special treatment needed** First Aid, decontamination, treatment of symptoms.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media alcohol resistant foam, carbon dioxide, Powder, spray mist, (water) Unsuitable extinguishing media strong water jet

5.2. Special hazards arising from the substance or mixture

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

### 5.3. Advice for firefighters

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

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

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

#### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

### Advices on safe handling

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. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

#### Hints on joint storage

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

### Further information on storage conditions



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Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

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

Observe technical data sheet. Observe instructions for use.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Occupational exposure limit values:

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

4-methylpentan-2-one

Index No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1

TWA: 208 mg/m3; 50 ppm STEL: 416 mg/m3; 100 ppm

GILL. 410 mg

### butanone

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

TWA: 600 mg/m3; 200 ppm STEL: 899 mg/m3; 300 ppm

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

TWA: 274 mg/m3; 50 ppm STEL: 548 mg/m3; 100 ppm

#### Additional information

TWA : Long-term occupational exposure limit value STEL : short-term occupational exposure limit value Ceiling : peak limitation

#### DNEL:

4-methylpentan-2-one

Index No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1 DNEL long-term dermal (systemic), Workers: 11,8 mg/kg DNEL acute inhalative (local), Workers: 208 mg/m<sup>3</sup> DNEL acute inhalative (systemic), Workers: 208 mg/m<sup>3</sup> DNEL long-term inhalative (local), Workers: 83 mg/m<sup>3</sup> DNEL long-term inhalative (systemic), Workers: 83 mg/m<sup>3</sup> DNEL long-term oral (repeated), Consumer: 4,2 mg/kg DNEL long-term dermal (systemic), Consumer: 4,2 mg/kg DNEL acute inhalative (local), Consumer: 155,2 mg/m<sup>3</sup> DNEL acute inhalative (systemic), Consumer: 155,2 mg/m<sup>3</sup> DNEL long-term inhalative (local), Consumer: 14,7 mg/m<sup>3</sup> DNEL long-term inhalative (systemic), Consumer: 14,7 mg/m<sup>3</sup> Hydrocarbons, C9, aromatics Index No. 649-356-00-4 / EC No. 918-668-5 / CAS No. 64742-95-6 DNEL long-term dermal (systemic), Workers: 25 mg/kg DNEL long-term inhalative (systemic), Workers: 150 mg/m<sup>3</sup> DNEL long-term oral (repeated), Consumer: 11 mg/kg DNEL long-term dermal (systemic), Consumer: 11 mg/kg DNEL long-term inhalative (systemic), Consumer: 32 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 dermal (systemic), Consumer: 206 mg/kg

Brush Pen Covering Lacquer Article No.: 288XXX Print date: 20.09.2021 Revision date: 20.09.2021 53361 GB Version: Issue date: 20.09.2021 Page 5 / 13 DNEL long-term inhalative (systemic), Consumer: 106 mg/m<sup>3</sup> 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: 7 mg/kg DNEL acute inhalative (local), Workers: 600 mg/m<sup>3</sup> DNEL acute inhalative (systemic), Workers: 600 mg/m<sup>3</sup> DNEL long-term inhalative (local), Workers: 300 mg/m<sup>3</sup> DNEL long-term inhalative (systemic), Workers: 48 mg/m<sup>3</sup> DNEL short-term oral (acute), Consumer: 2 mg/kg DNEL long-term oral (repeated), Consumer: 2 mg/kg DNEL acute dermal, short-term (systemic), Consumer: 6 mg/kg DNEL long-term dermal (systemic), Consumer: 3,4 mg/kg DNEL acute inhalative (local), Consumer: 300 mg/m<sup>3</sup> DNEL acute inhalative (systemic), Consumer: 300 mg/m<sup>3</sup> DNEL long-term inhalative (local), Consumer: 35,7 mg/m<sup>3</sup> DNEL long-term inhalative (systemic), Consumer: 12 mg/m<sup>3</sup> PNEC: 4-methylpentan-2-one Index No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1 PNEC aquatic, freshwater: 0,6 mg/L PNEC aquatic, marine water: 0,06 mg/L PNEC aquatic, intermittent release: 1,5 mg/L PNEC sediment, freshwater: 8,27 mg/kg PNEC sediment, marine water: 0,83 mg/kg PNEC, soil: 1,3 mg/kg PNEC sewage treatment plant (STP): 27,5 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 PNEC sewage treatment plant (STP): 709 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 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. Use only respiratory protection equipment with CE-symbol including four digit test number. Suitable respiratory protection apparatus: A

#### Hand protection

For prolonged or repeated handling the following glove material must be used: PE/EVAL/PE

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.





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### 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**

| 9.1. | Information on basic physical and chemical properties |  |  |  |
|------|---|--|--|--|
|      | Appearance:   |  |  |  |
|      | Physical state:                                       | Liquid                                     |  |  |
|      | Colour:   | refer to label                             |  |  |
|      | Odour:  | Preparations containing solvent            |  |  |
|      | Odour threshold:                                      | not determined                             |  |  |
|      | pH at 20 °C:  | N.A.                                       |  |  |
|      | Melting point/freezing point:                         | n.a.                                       |  |  |
|      | Initial boiling point and boiling range:              | 80 °C                                      |  |  |
|      |   | Method: calculated.<br>Source: butanone    |  |  |
|      | Flash point:  | 16 °C                                      |  |  |
|      |   | Method: calculated.                        |  |  |
|      | Evaporation rate:                                     | not determined                             |  |  |
|      | flammability<br>Burning time:                         | not determined                             |  |  |
|      | Upper/lower flammability or explosive limits:         |  |  |  |
|      | Lower explosion limit:                                | 1,28 Vol-%                                 |  |  |
|      | Upper explosion limit:                                | Method: calculated.<br>14 Vol-%            |  |  |
|      |   | Method: calculated.                        |  |  |
|      |   | Source: (2-methoxymethylethoxy)propanol    |  |  |
|      | Vapour pressure at 20 °C:                             | <b>17,9704 mbar</b><br>Method: calculated. |  |  |
|      | Vapour density:                                       | not determined                             |  |  |
|      | Relative density:                                     |  |  |  |
|      | Density at 20 °C:                                     | 0,95 g/cm <sup>3</sup>                     |  |  |
|      |   | Method: calculated.                        |  |  |
|      | Solubility(ies):<br>Water solubility at 20 °C:        | insoluble                                  |  |  |
|      | Partition coefficient: n-octanol/water:               | see section 12                             |  |  |
|      | Auto-ignition temperature:                            | not determined                             |  |  |
|      | Decomposition temperature:                            | not determined                             |  |  |
|      | Viscosity at 20 °C:                                   | 100 s 3 mm                                 |  |  |
|      |   | Method: EN ISO 2431                        |  |  |
|      | Explosive properties:                                 | not determined                             |  |  |
|      | Oxidising properties:                                 | not determined                             |  |  |
| 9.2. | Other information                                     |  |  |  |
|      | Solid content:  | 27,51 weight-%                             |  |  |
|      | solvent content:                                      |  |  |  |
|      | Organic solvents:                                     | 72 weight-%                                |  |  |
|      | Water:  | 0 weight-%                                 |  |  |
|      |   |  |  |  |



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## **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

Amines, C12-16-alkyldimethyl oral, LD50, Rat: 52,6 mg/kg Method: OECD 453 Harmful if swallowed. 2-methoxy-1-methylethyl acetate oral, LD50, Rat: 8532 mg/kg dermal, LD50, Rabbit: > 5000 mg/kg Based on available data, the classification criteria are not met. 4-methylpentan-2-one oral, LD50, Rat: > 2193 mg/kg Method: OECD 401 dermal, LD50, Rat: > 2000 mg/kg Method: OECD 402 inhalative (vapours), LC50, Rat 8,3 - 16,6 mg/L (4 h) Method: OECD 403 Harmful by inhalation. Hydrocarbons, C9, aromatics oral, LD50, Rat: 3592 mg/kg Method: OECD 401 dermal, LD50, Rabbit: > 3160 mg/kg Method: OECD 402 Based on available data, the classification criteria are not met. butanone oral, LD50, Rat: > 2193 mg/kg Method: OECD 423 dermal, LD50, Rabbit: > 5000 mg/kg Method: OECD 402 inhalative (vapours), LC50, Rat: 34 mg/L (4 h) Based on available data, the classification criteria are not met. n-butvl 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

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|   |                             |   |                         |  |

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

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

Causes serious eye irritation.

Amines, C12-16-alkyldimethyl Skin, Rabbit (4 h) Method: OECD 404

### Causes severe skin burns and eye damage.

4-methylpentan-2-one

eyes

Causes serious eye irritation.

butanone

eyes, Rabbit Method: OECD 405

Causes serious eye irritation.

### Respiratory or skin sensitisation

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

### 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 respiratory irritation.

May cause drowsiness or dizziness.

2-methoxy-1-methylethyl acetate

Specific target organ toxicity (single exposure), drowsiness Evaluation May cause drowsiness or dizziness.

4-methylpentan-2-one Specific target organ toxicity (single exposure), Irritation May cause respiratory irritation.

### Hydrocarbons, C9, aromatics

Specific target organ toxicity (single exposure), Irritation

- May cause respiratory irritation.
- Specific target organ toxicity (single exposure), drowsiness
- May cause drowsiness or dizziness.
- butanone

Specific target organ toxicity (single exposure), drowsiness May cause drowsiness or dizziness.

n-butyl acetate Specific target organ toxicity (single exposure), drowsiness

May cause drowsiness or dizziness.

#### Aspiration hazard

Hydrocarbons, C9, aromatics Aspiration hazard May be fatal if swallowed and enters airways.

#### 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 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.

### **SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP] Do not allow to enter into surface water or drains.



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### 12.1. Toxicity

Amines, C12-16-alkyldimethyl Fish toxicity, LC50, Danio rerio (zebrafish): 0,26 mg/L (96 h) Method: OECD 203 Very toxic to aquatic organisms. Daphnia toxicity, EC50, Daphnia magna (Big water flea): 0,056 mg/L (48 h) Method: OECD 202 2-methoxy-1-methylethyl acetate Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 134 mg/L 0 - 180 mg/L (96 h) Method: OECD 203 Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 500 mg/L (48 h) Based on available data, the classification criteria are not met. 4-methylpentan-2-one Fish toxicity, LC50, Danio rerio (zebrafish): > 179 mg/L (96 h) Method: OECD 203 Daphnia toxicity, EC50, Daphnia magna: > 200 mg/L (48 h) Method: OECD 202 Bacteria toxicity, EC50, Pseudomonas putida: 275 mg/L (16 h) Based on available data, the classification criteria are not met. Hvdrocarbons, C9, aromatics Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 9,2 mg/L (96 h) Daphnia toxicity, EC50, Daphnia magna (Big water flea): 3,2 mg/L (48 h) Method: OECD 202 Algae toxicity, ErC50, Pseudokirchneriella subcapitata 2,6 - 2,9 mg/L (72 h) Based on available data, the classification criteria are not met. butanone Fish toxicity, LC50, Pimephales promelas (fathead minnow): 2990 mg/L (96 h) Method: OECD 203 Daphnia toxicity, EC50, Daphnia magna (Big water flea): 308 mg/L (48 h) Method: OECD 202 Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 1972 mg/L (72 h) Method: OECD 201 Bacteria toxicity, EC0, Pseudomonas putida: 1150 mg/L (16 h) Based on available data, the classification criteria are not met. 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) Method: OECD 202 Algae toxicity, EC50, Desmodesmus subspicatus.: 397 mg/L (72 h) Method: OECD 201 Based on available data, the classification criteria are not met. Long-term Ecotoxicity Harmful to aquatic life with long lasting effects. Amines, C12-16-alkyldimethyl Daphnia toxicity, EC50 (48 h) Very toxic to aquatic life with long lasting effects. 4-methylpentan-2-one Daphnia toxicity, NOEC, Daphnia magna (Big water flea) 30 - 35 mg/L (21 D) Method: OECD 211 Based on available data, the classification criteria are not met. Hydrocarbons, C9, aromatics Fish toxicity, LC50 (96 h) Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 12.2. Persistence and degradability 2-methoxy-1-methylethyl acetate Biodegradation: 100 % (8 D)



safe way. Waste

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|   | Readily b                          | iodegradable (acc                                    | ording to OECD criteria).   |   |
|   | 4-methylpe<br>Biodegrad<br>Method: | ntan-2-one<br>dation:: 83 % (28<br>OECD 301 F        |   |   |
|   | Biodegrad                          |  | ording to OECD criteria).   |   |
|   |                                    | dation: 98 % (28<br>iodegradable (acc                | d)<br>ording to OECD criteria).   |   |
|   | Method:                            | dation, aerobic: 83<br>OECD 301D                     | % (28 D)<br>ording to OECD criteria).   |   |
| 12.3.                                   | Bioaccum                           | ulative potential                                    |   |   |
|   |                                    | 1-methylethyl ace<br>coefficient: n-octan<br>Log KOW |   |   |
|   | Partition of                       | ntan-2-one<br>coefficient: n-octan<br>OECD 117       | ol/water: 1,31 0 - 1,9  |   |
|   | butanone<br>Partition o            | coefficient: n-octan                                 | ol/water: 0,3   |   |
|   |                                    | tate<br>coefficient: n-octan<br>OECD 117             | ol/water: 2,3   |   |
| 12.4.                                   | Mobility in<br>Toxicologic         | s <b>oil</b><br>al data are not av                   | ailable.  |   |
| 12.5.                                   | Results of                         | PBT and vPvB as                                      | ssessment   |   |
|   | The substa                         | nces in the mixtur                                   | e do not meet the PBT/vPvB criteria ac  | cording to REACH, annex XIII.                       |
| 12.6.                                   |                                    | erse effects<br>tion available.                      |   |   |
| SEC                                     | TION 13: D                         | isposal consid                                       | erations  |   |
| 13.1.                                   | Waste trea                         | tment methods  |   |   |
|   | Recomme<br>Do not allo             | w to enter into su                                   | <b>luct</b><br>rface water or drains. This material and<br>e 2008/98/EC, covering waste and dan                         |   |
|   | List of pro<br>080111*             | posed waste cod<br>Waste                             | es/waste designations in accordance<br>paint and varnish containing organic so<br>to Directive 2008/98/EC (waste framew | e with EWC<br>olvents or other dangerous substances |
|   | Recomme                            |  | <b>kage</b><br>may be recycled. Vessels not properly  | emptied are special waste.                          |
| SEC                                     | TION 14. T                         | ransport inform                                      | nation  |   |

### **SECTION 14: Transport information**

### 14.1. UN number

|       |                                     | UN 1263 |
|-------|-------------------------------------|---------|
| 14.2. | UN proper shipping name             |         |
|       | Land transport (ADR/RID):           | Paint   |
|       | Sea transport (IMDG):               | PAINT   |
|       | Air transport (ICAO-TI / IATA-DGR): | Paint   |
| 14.3. | Transport hazard class(es)          |         |

### 14.3. Transport hazard class(es)

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| 14.4.                          | Packing   | group                       |   |                          |           |  |  |
|                                |   |                             | II  |                          |           |  |  |
| -                              |   | nental hazards              |   |                          |           |  |  |
|                                |   | sport (ADR/RID)             |   | information available.   |           |  |  |
|                                | Marine p  |                             |   | information available.   |           |  |  |
|                                | 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.<br>Advices on safe handling: see parts 6 - 8  |                             |   |                          |           |  |  |
|                                | Further i   | nformation                  |   |                          |           |  |  |
|                                | Land transport (ADR/RID)  |                             |   |                          |           |  |  |
|                                | tunnel res  | striction code              | D/E   |                          |           |  |  |
|                                | Sea trans   | sport (IMDG)                |   |                          |           |  |  |
|                                | EmS-No.   |                             | F-E, S-E  |                          |           |  |  |
| 14.7.                          | Transport in bulk according to Annex II of Marpol and the IBC Code  |                             |   |                          |           |  |  |
|                                | not applie  | cable                       |   |                          |           |  |  |
| SECT                           | <b>FION 15</b> :  | Regulatory info             | mation  |                          |           |  |  |
| 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]<br>Maximum VOC content (g/L) of the product in a ready to use condition: 692  |                             |   |                          |           |  |  |
|                                | Directive 2004/42/EC on the limitation of emissions of volatile organic compounds<br>VOC product category: (Cat. B/e) ; VOC limit value: 840 g/l<br>Maximum VOC content (g/L) of the product in a ready to use condition: 692   |                             |   |                          |           |  |  |
|                                | National regulations  |                             |   |                          |           |  |  |
|                                | <b>Restrictions of occupation</b><br>Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.<br>Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  |                             |   |                          |           |  |  |
|                                | Substance/product listed in the following inventories:<br>DSL listed<br>TSCA listed   |                             |   |                          |           |  |  |
|                                | <b>REACH candidate list of substances of very high concern (SVHC) for the approval process.</b><br>According to the available data and / or according to the information provided by the suppliers, the product does not contain any substance that is eligible for inclusion in Annex XIV (list of substances subject to authorization) in accordance with Article 57 in conjunction with Article 59 of REACH. |                             |   |                          |           |  |  |
|                                | Regulation (EC) 1907/2006. material in question applies.Regulation (EC) 1907/2006 (REACH) Annex XIV (list of  |                             |   |                          |           |  |  |

### Regulation (EC) 1907/2006. material in question applies. Regulation (EC) 1907/2006 (REACH) Annex XIV (list of substances subject to authorization)

According to the available data and / or according to the information provided by the suppliers, the product does not contain any substance that is considered to be a substance that requires authorization according to REACH Regulation (EC) 1907/2006 Annex XIV.

## 15.2. Chemical Safety Assessment

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

| Designation                 | REACH No.  |
|-----------------------------|--|
|                             |  |
| n-butyl acetate             | 01-2119485493-29-xxxx  |
|                             |  |
| 4-methylpentan-2-one        | 01-2119473980-30-xxxx  |
|                             |  |
| Hydrocarbons, C9, aromatics | 01-2119455851-35-xxxx  |
| -                           |  |
| butanone                    | 01-2119457290-43-xxxx  |
|                             |  |
|                             | n-butyl acetate<br>4-methylpentan-2-one<br>Hydrocarbons, C9, aromatics |



\*

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|---|---------------------------------|---|--------------------------|-----------------------|--|
| 203-603-9<br>108-65-6                   | 2-methoxy-1-methylethyl acetate |   | 01-2119475791-29-xxxx    |                       |  |
| 270-414-6<br>68439-70-                  |                                 | , C12-16-alkyldimethyl  |                          | 01-2119970968-14-xxxx |  |

### SECTION 16: Other information

| Full text of classification in section 3 |   |   |  |  |  |  |  |
|--|---|---|--|--|--|--|--|
| Flam. Liq. 3 / H226                      |   | Flammable liquids   | Flammable liquid and vapour.                     |  |  |  |  |
| STOT SE 3 / H336                         |   | STOT-single exposure  | May cause drowsiness or dizziness.               |  |  |  |  |
| Flam. Liq. 2 / H225                      |   | Flammable liquids   | Highly flammable liquid and vapour.              |  |  |  |  |
| Acute Tox. 4 / H332                      |   | Acute toxicity (inhalative)   | Harmful if inhaled.                              |  |  |  |  |
| Eye Irrit. 2 / H319                      |   | Serious eye damage/eye irritation   | Causes serious eye irritation.                   |  |  |  |  |
| STOT SE 3 / H335                         |   | STOT-single exposure  | May cause respiratory irritation.                |  |  |  |  |
| Asp. Tox. 1 / H304                       |   | Aspiration hazard   | May be fatal if swallowed and enters airways.    |  |  |  |  |
| Aquatic Chronic 2 / H                    | 4411  | Hazardous to the aquatic environment  | Toxic to aquatic life with long lasting effects. |  |  |  |  |
| Acute Tox. 4 / H302                      |   | Acute toxicity (oral)   | Harmful if swallowed.                            |  |  |  |  |
| Skin Corr. 1B / H314                     |   | Skin corrosion/irritation   | Causes severe skin burns and eye damage.         |  |  |  |  |
| Aquatic Acute 1 / H4                     | 00  | Hazardous to the aquatic environment  | Very toxic to aquatic organisms.                 |  |  |  |  |
| Aquatic Chronic 1 / H                    | H410  | Hazardous to the aquatic environment  | Very toxic to aquatic life with long lasting     |  |  |  |  |
|  |   |   | effects.   |  |  |  |  |
| Classification proce                     | edure   |   |  |  |  |  |  |
|  |   | used evaluation method according to reg   | ulation (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.                              |  |  |  |  |
| STOT SE 3                                |   | STOT-single exposure  | Calculation method.                              |  |  |  |  |
| STOT SE 3                                |   | STOT-single exposure  | Calculation method.                              |  |  |  |  |
| Aquatic Chronic 3                        |   | Hazardous to the aquatic environment  | Calculation method.                              |  |  |  |  |
| Abbreviations and a                      | acronyme  | ·····   |  |  |  |  |  |
| ADR                                      |   | n Agreement concerning the Internation  | al Carriage of Dangerous Goods by Road           |  |  |  |  |
| OEL                                      |   | ional Exposure Limit Value  | a barnage of Dangerous Coous by Road             |  |  |  |  |
| BLV                                      |   |   |  |  |  |  |  |
| CAS                                      |   | Biological Limit Value<br>Chemical Abstracts Service                            |  |  |  |  |  |
| CLP                                      |   | Classification, Labelling and Packaging   |  |  |  |  |  |
| CMR                                      |   | Cassincation, Labelling and Packaging<br>Carcinogenic, Mutagenic and Reprotoxic |  |  |  |  |  |
| DIN                                      |   | Institute for Standardization / German in                                       | dustrial standard                                |  |  |  |  |
| DNEL                                     |   | No-Effect Level   |  |  |  |  |  |
| EAKV                                     |   | n Waste Catalogue Directive   |  |  |  |  |  |
| EC                                       |   | Concentration   |  |  |  |  |  |
| EC                                       |   | n Community   |  |  |  |  |  |
| EN                                       | -   | -   |  |  |  |  |  |
| IATA-DGR                                 |   |   |  |  |  |  |  |
| IBC Code                                 |   |   |  |  |  |  |  |
| ICAO-TI                                  |   |   |  |  |  |  |  |
|  | Goods b   |   | ······································           |  |  |  |  |
| IMDG Code                                |   | onal Maritime Code for Dangerous Good   | S  |  |  |  |  |
| ISO                                      |   | onal Organization for Standardization   |  |  |  |  |  |
| LC                                       |   | oncentration  |  |  |  |  |  |
| LD                                       | Lethal D  |   |  |  |  |  |  |
| MARPOL                                   | Maritime Pollution: The International Convention for the Prevention of Pollution from Ships |   |  |  |  |  |  |
| OECD                                     | Organisation for Economic Cooperation and Development                                       |   |  |  |  |  |  |
| PBT                                      | -   | nt, 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 N  |   |  |  |  |  |  |
| VOC                                      | Volatile (  | Organic Compounds   |  |  |  |  |  |
| vPvB                                     |   | sistent and very bioaccumulative  |  |  |  |  |  |
| Further information                      |   | -   |  |  |  |  |  |

### Further information

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



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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.

You can also find current SDSs for our standard products online on our homepage under **Downloads** in the relevant product area.

\* Data changed compared with the previous version