

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



Article No.: 243590  
Print date: 03.02.2023  
Version: 2.5

PREMIUM edge pen  
Revision date: 10.01.2023  
Issue date: 11.01.2023

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

**1.1. product identifiers**

Article No. (manufacturer/supplier) 243590  
Trade name/designation PREMIUM edge pen  
Metal and Glimmer lacquers  
UFI: 01JA-KV84-V20V-0DJW

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

**Relevant identified uses:**

Coating (Paint, Varnish).

**Uses advised against:**

Do not use for products which come into contact with the food stuffs.

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

**Manufacturer/supplier**

Heinrich König GmbH & Co. KG  
An der Rosenhelle 5  
61138 Niederdorfelden  
Germany

Telephone: +49 (0)6101 5360 0  
Telefax: +49 (0)6101 5360 11  
E-mail: Info@heinrich-koenig.de  
Website: www.heinrich-koenig.de

**Department responsible for information:**

Laboratory

Only available during office hours:

Telephone: +49 (0)6101 5360 71  
Mon - Thurs 08:00 to 16:00  
Friday 08:00 - 12:30

E-mail (competent person)

SDB@heinrich-koenig.de

**1.4. Emergency telephone number**

Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK  
GmbH +49 (0)6132-84463

**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.

STOT SE 3 / H336

STOT-single exposure

May cause drowsiness or dizziness.

Aquatic Chronic 3 / H412

Hazardous to the aquatic environment

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.

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.

P403 + P235

Store in a well-ventilated place. Keep cool.

**Hazard components for labelling**

n-butyl acetate

**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.

**2.3. Other hazards**

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No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Description** Acrylic resin lacquer

**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-% |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 204-658-1<br>123-86-4<br>607-025-00-1   | 01-2119485493-29-xxxx<br>n-butyl acetate<br>Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066                                                                             | 50 < 100 |
| 918-668-5<br>64742-95-6<br>649-356-00-4 | 01-2119455851-35-xxxx<br>Hydrocarbons, C9, aromatics<br>STOT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic<br>2 H411 / Flam. Liq. 3 H226 / EUH066 | 10 < 20  |
| 201-159-0<br>78-93-3<br>606-002-00-3    | 01-2119457290-43-xxxx<br>butanone<br>Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066                                                                | 5 < 7    |
| 231-072-3<br>7429-90-5<br>013-002-00-1  | 01-2119529243-45-xxxx<br>aluminium powder (stabilised)<br>Water-react. 2 H261 / Flam. Sol. 1 H228                                                                   | 3 < 5    |
| 236-675-5<br>13463-67-7<br>022-006-00-2 | 01-2119489379-17-xxxx<br>titanium dioxide [in powder form containing 1 % or more of particles with<br>aerodynamic diameter ≤ 10 µm]<br>Carc. 2 H351                 | 3 < 5    |

#### 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)

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## 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

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:

not determined

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**DNEL:**

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7

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

DNEL long-term oral (repeated), Consumer: 700 mg/kg

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

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:**

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

Index No. 022-006-00-2 / 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

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

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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.

#### **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 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

|                                                 |                                                                                   |
|-------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Physical state:</b>                          | <b>Liquid</b>                                                                     |
| <b>Colour:</b>                                  | <b>refer to label</b>                                                             |
| <b>Odour:</b>                                   | <b>Preparations containing solvent</b>                                            |
| <b>Odour threshold:</b>                         | <b>not determined</b>                                                             |
| <b>Melting point/freezing point:</b>            | <b>not determined</b>                                                             |
| <b>Initial boiling point and boiling range:</b> | <b>80 °C</b><br>Method: calculated.<br>Source: butanone                           |
| <b>Flammability:</b>                            | Highly flammable liquid and vapour.                                               |
| <b>Lower and upper explosion limit:</b>         |                                                                                   |
| <b>Lower explosion limit:</b>                   | <b>1,24 Vol-%</b><br>Method: calculated.                                          |
| <b>Upper explosion limit:</b>                   | <b>14 Vol-%</b><br>Method: calculated.<br>Source: (2-methoxymethylethoxy)propanol |
| <b>Flash point:</b>                             | <b>16 °C</b><br>Method: calculated.                                               |
| <b>Auto-ignition temperature:</b>               | <b>415 °C</b><br>Method: calculated.<br>Source: n-butyl acetate                   |
| <b>Decomposition temperature:</b>               | <b>not determined</b>                                                             |
| <b>pH at 20 °C:</b>                             | <b>not applicable</b>                                                             |
| <b>Cinematic viscosity (40°C):</b>              | <b>&gt; 20 mm²/s</b>                                                              |

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**Viscosity at 20 °C:** 100 s 3 mm  
Method: EN ISO 2431

**Solubility(ies):**  
**Water solubility at 20 °C:** insoluble  
**Partition coefficient: n-octanol/water:** see section 12  
**Vapour pressure at 20 °C:** 15,8393 mbar  
Method: calculated.

**Density and/or relative density:**  
**Density at 20 °C:** 0,96 g/cm<sup>3</sup>  
Method: calculated.

**Relative vapour density:** not applicable  
**particle characteristics:** not applicable

## 9.2. Other information

**Solid content:** 25,76 weight-%  
**solvent content:**  
**Organic solvents:** 74 weight-%  
**Water:** 0 weight-%

## 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

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 425

dermal, LD50, Rabbit: > 5000 mg/kg

inhalative (dust and mist), LC50, Rat: > 6,8 mg/L (4 h)

aluminium powder (stabilised)

inhalative (dust and mist), LC50, Rat: > 888 mg/L (4 h)

Based on available data the classification criteria are not met.

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

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

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

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]  
Carcinogenicity  
Suspected of causing cancer if inhaled.

**STOT-single exposure; STOT-repeated exposure**

May cause drowsiness or dizziness.

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.

**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]

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Do not allow to enter into surface water or drains.

**12.1. Toxicity**

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

Fish toxicity, LC50, Pimephales promelas (fathead minnow):  $> 1000 \text{ mg/L}$  (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea):  $> 100 \text{ mg/L}$  (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata:  $16 \text{ mg/L}$  (72 h)

Bacteria toxicity, NOEC, Activated sludge:  $> 100000 \text{ mg/L}$  (28 D)

Hydrocarbons, C9, aromatics

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout):  $9,2 \text{ mg/L}$  (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea):  $3,2 \text{ mg/L}$  (48 h)

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata:  $2,6 - 2,9 \text{ mg/L}$  (72 h)

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

butanone

Fish toxicity, LC50, Pimephales promelas (fathead minnow):  $2990 \text{ mg/L}$  (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea):  $308 \text{ mg/L}$  (48 h)

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata:  $1972 \text{ mg/L}$  (72 h)

Method: OECD 201

Bacteria toxicity, EC0, Pseudomonas putida:  $1150 \text{ mg/L}$  (16 h)

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

n-butyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow):  $18 \text{ mg/L}$  (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea):  $44 \text{ mg/L}$  (48 h)

Method: OECD 202

Algae toxicity, EC50, Desmodesmus subspicatus:  $397 \text{ mg/L}$  (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.

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**

Hydrocarbons, C9, aromatics

Biodegradation:

Readily biodegradable (according to OECD criteria).

butanone

Biodegradation: 98 % (28 d)

Readily biodegradable (according to OECD criteria).

n-butyl acetate

Biodegradation, aerobic: 83 % (28 D)

Method: OECD 301D

Readily biodegradable (according to OECD criteria).

**12.3. Bioaccumulative potential**

butanone

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

n-butyl acetate

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

Method: OECD 117

**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.

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**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. Dispose of waste according to applicable legislation.

**List of proposed waste codes/waste designations in accordance with EWC**

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**14.1. UN number or ID 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)**

3

**14.4. Packing group**

II

**14.5. Environmental hazards**

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

**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 D/E  
SPECIAL PROVISIONS 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): 710

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC product category: (Cat. B/e) ; VOC limit value: 840 g/l

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 243590  
Print date: 03.02.2023  
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Maximum VOC content of the product in a ready to use condition (in g/L): 710

## 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 juveniles according to the 'juvenile work protection guideline' (94/33/EC).

### REACH candidate list of substances of very high concern (SVHC) for the approval process.

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 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:

| EC No.<br>CAS No.       | Designation                                                                                                            | REACH No.             |
|-------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 204-658-1<br>123-86-4   | n-butyl acetate                                                                                                        | 01-2119485493-29-xxxx |
| 918-668-5<br>64742-95-6 | Hydrocarbons, C9, aromatics                                                                                            | 01-2119455851-35-xxxx |
| 201-159-0<br>78-93-3    | butanone                                                                                                               | 01-2119457290-43-xxxx |
| 231-072-3<br>7429-90-5  | aluminium powder (stabilised)                                                                                          | 01-2119529243-45-xxxx |
| 236-675-5<br>13463-67-7 | titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ] | 01-2119489379-17-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.               |
| 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 / 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.                   |
| Water-react. 2 / H261    | Substances or mixtures which, in contact with water, emit flammable gases | In contact with water releases flammable gases.  |
| Flam. Sol. 1 / H228      | flammable solids                                                          | Flammable solid.                                 |
| Carc. 2 / H351           | Carcinogenicity                                                           | Suspected of causing cancer if inhaled.          |

### 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. |
| STOT SE 3         | STOT-single exposure                 | Calculation method.    |
| Aquatic Chronic 3 | 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                                                                  |

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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.

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