

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

**Refills for cartridge pencil 0,9 mm**  
**Art.: 610842**

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

**Relevant identified uses of the substance or mixture:**

See definition of the substance or mixture.

**Uses advised against:**

No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

PRYM CONSUMER Europe GmbH  
Zweifaller Str. 130  
52224 Stolberg  
Deutschland  
Tel.: +49 (0)2402 - 14 04  
Fax: +49 (0)2402 - 14 29 19

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

**Emergency information services / official advisory body:**

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**Telephone number of the company in case of emergencies:**

+49 (0)2402 - 14 04

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) 1272/2008 (CLP)**

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

#### 2.2 Label elements

**Labeling according to Regulation (EC) 1272/2008 (CLP)**

EUH212-Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

### SECTION 3: Composition/information on ingredients

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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Refills for cartridge pencil 0,9 mm

Art.: 610842

### 3.1 Substances

n.a.

### 3.2 Mixtures

|                                                                                                                    |                               |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter &lt;= 10 µm)</b> |                               |
| <b>Registration number (REACH)</b>                                                                                 | ---                           |
| <b>Index</b>                                                                                                       | 022-006-002                   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                                                      | 236-675-5                     |
| <b>CAS</b>                                                                                                         | 13463-67-7                    |
| <b>content %</b>                                                                                                   | 1-<15                         |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>                                      | Carc. 2, H351 (as inhalation) |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink. Consult doctor if necessary.

### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Adapt to the nature and extent of fire.

Water jet spray/foam/CO2/dry extinguisher

#### Unsuitable extinguishing media

None known

### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Toxic gases

### 5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 19.10.2022 / 0004  
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 Refills for cartridge pencil 0,9 mm  
 Art.: 610842

## SECTION 6: Accidental release measures

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

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

No special measures required.

Avoid contact with eyes.

Avoid long lasting or intensive contact with skin.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### 6.2 Environmental precautions

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

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

Pick up mechanically and dispose of according to Section 13.

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Avoid contact with eyes.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

### 7.2 Conditions for safe storage, including any incompatibilities

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Store at room temperature.

Store in a dry place.

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

|                                                                     |               |                                                                                                          |                        |     |
|---------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------|------------------------|-----|
| CE                                                                  | Chemical Name | Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) |                        |     |
| WEL-TWA: 10 mg/m3 (total inhalable dust), 4 mg/m3 (respirable dust) |               | WEL-STEL: ---                                                                                            |                        | --- |
| Monitoring procedures:                                              |               | ---                                                                                                      |                        |     |
| BMGV: ---                                                           |               |                                                                                                          | Other information: --- |     |
| CE                                                                  | Chemical Name | Talc                                                                                                     |                        |     |
| WEL-TWA: 1 mg/m3 (res. dust)                                        |               | WEL-STEL: ---                                                                                            |                        | --- |
| Monitoring procedures:                                              |               | ---                                                                                                      |                        |     |
| BMGV: ---                                                           |               |                                                                                                          | Other information: --- |     |
| CE                                                                  | Chemical Name | Carbon black                                                                                             |                        |     |
| WEL-TWA: 3,5 mg/m3                                                  |               | WEL-STEL: 7 mg/m3                                                                                        |                        | --- |
| Monitoring procedures:                                              |               | ---                                                                                                      |                        |     |

|           |                        |
|-----------|------------------------|
| BMGV: --- | Other information: --- |
|-----------|------------------------|

|                                       |               |                                                   |                        |     |
|---------------------------------------|---------------|---------------------------------------------------|------------------------|-----|
| GE                                    | Chemical Name | Microcrystalline paraffin wax and hydrocarbon wax |                        |     |
| WEL-TWA: 2 mg/m3 (paraffin wax, fume) |               | WEL-STEL: 6 mg/m3 (paraffin wax, fume)            |                        | --- |
| Monitoring procedures: ---            |               |                                                   |                        |     |
| BMGV: ---                             |               |                                                   | Other information: --- |     |

| Chemical Name                                                 |  | Zinc distearate                     |     |
|---------------------------------------------------------------|--|-------------------------------------|-----|
| WEL-TWA: 4 mg/m3 (respirable dust), 10 mg/m3 (inhalable dust) |  | WEL-STEL: 20 mg/m3 (inhalable dust) | --- |
| Monitoring procedures:                                        |  | ---                                 |     |
| BMGV: ---                                                     |  | Other information: ---              |     |

| CE                                                      | Chemical Name | general dust limit     |     |
|---------------------------------------------------------|---------------|------------------------|-----|
| WEL-TWA: 10 mg/m3 (inhal. dust), 4 mg/m3 (respir. dust) |               | WEL-STEL: ---          | --- |
| Monitoring procedures:                                  |               | ---                    |     |
| BMGV: ---                                               |               | Other information: --- |     |

| Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) |                                                      |                             |            |        |            |      |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------|------------|--------|------------|------|
| Area of application                                                                                      | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value  | Unit       | Note |
|                                                                                                          | Environment - freshwater                             |                             | PNEC       | 0,184  | mg/l       |      |
|                                                                                                          | Environment - marine                                 |                             | PNEC       | 0,0184 | mg/l       |      |
|                                                                                                          | Environment - water, sporadic (intermittent) release |                             | PNEC       | 0,193  | mg/l       |      |
|                                                                                                          | Environment - sewage treatment plant                 |                             | PNEC       | 100    | mg/l       |      |
|                                                                                                          | Environment - sediment, freshwater                   |                             | PNEC       | 1000   | mg/kg dw   |      |
|                                                                                                          | Environment - sediment, marine                       |                             | PNEC       | 100    | mg/kg dw   |      |
|                                                                                                          | Environment - soil                                   |                             | PNEC       | 100    | mg/kg dw   |      |
|                                                                                                          | Environment - oral (animal feed)                     |                             | PNEC       | 1667   | mg/kg feed |      |
| Consumer                                                                                                 | Human - oral                                         | Long term, systemic effects | DNEL       | 700    | mg/kg bw/d |      |
| Workers / employees                                                                                      | Human - inhalation                                   | Long term, local effects    | DNEL       | 10     | mg/m3      |      |

| Carbon black        |                                            |                             |            |       |       |      |
|---------------------|--------------------------------------------|-----------------------------|------------|-------|-------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit  | Note |
|                     | Environment - freshwater                   |                             | PNEC       | 1     | mg/l  |      |
|                     | Environment - marine                       |                             | PNEC       | 0,1   | mg/l  |      |
| Consumer            | Human - inhalation                         | Long term, systemic effects | DNEL       | 0,06  | mg/m3 |      |
| Workers / employees | Human - inhalation                         |                             | DNEL       | 1     | mg/m3 |      |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance

Page 5 of 13  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 19.10.2022 / 0004  
 Replacing version dated / version: 01.11.2021 / 0003  
 Valid from: 19.10.2022  
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 Refills for cartridge pencil 0,9 mm  
 Art.: 610842

can cause sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Normally not necessary.

Skin protection - Hand protection:

Normally not necessary.

Skin protection - Other:

Normally not necessary.

Respiratory protection:

Normally not necessary.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                           |                                                      |
|-----------------------------------------------------------|------------------------------------------------------|
| Physical state:                                           | Solid                                                |
| Colour:                                                   | According to specification                           |
| Odour:                                                    | Characteristic                                       |
| Melting point/freezing point:                             | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | There is no information available on this parameter. |
| Flammability:                                             | Not combustible.                                     |
| Lower explosion limit:                                    | Does not apply to solids.                            |
| Upper explosion limit:                                    | Does not apply to solids.                            |
| Flash point:                                              | Does not apply to solids.                            |
| Auto-ignition temperature:                                | Does not apply to solids.                            |
| Decomposition temperature:                                | There is no information available on this parameter. |
| pH:                                                       | There is no information available on this parameter. |
| Kinematic viscosity:                                      | Does not apply to solids.                            |
| Solubility:                                               | There is no information available on this parameter. |
| Partition coefficient n-octanol/water (log value):        | Does not apply to mixtures.                          |

Page 6 of 13  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 19.10.2022 / 0004  
 Replacing version dated / version: 01.11.2021 / 0003  
 Valid from: 19.10.2022  
 PDF print date: 19.10.2022  
 Refills for cartridge pencil 0,9 mm  
 Art.: 610842

Vapour pressure:

There is no information available on this parameter.

Density and/or relative density:

There is no information available on this parameter.

Relative vapour density:

Does not apply to solids.

## 9.2 Other information

Explosives:

Product is not explosive.

Oxidizing solids:

No

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not to be expected

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

See also section 7.

None known

### 10.5 Incompatible materials

See also section 7.

None known

### 10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

## SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

#### Refills for cartridge pencil 0,9 mm

Art.: 610842

| Toxicity / effect                                             | Endpoint | Value | Unit | Organism | Test method | Notes  |
|---------------------------------------------------------------|----------|-------|------|----------|-------------|--------|
| Acute toxicity, by oral route:                                |          |       |      |          |             | n.d.a. |
| Acute toxicity, by dermal route:                              |          |       |      |          |             | n.d.a. |
| Acute toxicity, by inhalation:                                |          |       |      |          |             | n.d.a. |
| Skin corrosion/irritation:                                    |          |       |      |          |             | n.d.a. |
| Serious eye damage/irritation:                                |          |       |      |          |             | n.d.a. |
| Respiratory or skin sensitisation:                            |          |       |      |          |             | n.d.a. |
| Germ cell mutagenicity:                                       |          |       |      |          |             | n.d.a. |
| Carcinogenicity:                                              |          |       |      |          |             | n.d.a. |
| Reproductive toxicity:                                        |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE):   |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          |       |      |          |             | n.d.a. |
| Aspiration hazard:                                            |          |       |      |          |             | n.d.a. |
| Symptoms:                                                     |          |       |      |          |             | n.d.a. |

#### Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ )

| Toxicity / effect                | Endpoint | Value | Unit    | Organism | Test method                                            | Notes        |
|----------------------------------|----------|-------|---------|----------|--------------------------------------------------------|--------------|
| Acute toxicity, by oral route:   | LD50     | >5000 | mg/kg   | Rat      | OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure) |              |
| Acute toxicity, by dermal route: | LD50     | >5000 | mg/kg   | Rabbit   |                                                        |              |
| Acute toxicity, by inhalation:   | LC50     | >6,8  | mg/l/4h | Rat      |                                                        |              |
| Skin corrosion/irritation:       |          |       |         | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion)           | Not irritant |

|                                                                         |       |      |         |                        |                                                          |                                                                                 |
|-------------------------------------------------------------------------|-------|------|---------|------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------|
| Serious eye damage/irritation:                                          |       |      |         | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                | Not irritant, Mechanical irritation possible.                                   |
| Respiratory or skin sensitisation:                                      |       |      |         | Mouse                  | OECD 429 (Skin Sensitisation - Local Lymph Node Assay)   | Not sensitising                                                                 |
| Respiratory or skin sensitisation:                                      |       |      |         | Guinea pig             | OECD 406 (Skin Sensitisation)                            | No (skin contact)                                                               |
| Germ cell mutagenicity:                                                 |       |      |         | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)       | Negative                                                                        |
| Germ cell mutagenicity:                                                 |       |      |         | Mammalian              | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative                                                                        |
| Germ cell mutagenicity:                                                 |       |      |         | Salmonella typhimurium | (Ames-Test)                                              | Negative                                                                        |
| Germ cell mutagenicity:                                                 |       |      |         |                        | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)    | Negative                                                                        |
| Germ cell mutagenicity:                                                 |       |      |         |                        | OECD 471 (Bacterial Reverse Mutation Test)               | Negative                                                                        |
| Reproductive toxicity (Developmental toxicity):                         |       |      |         | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)         | No indications of such an effect.                                               |
| Specific target organ toxicity - single exposure (STOT-SE):             |       |      |         |                        |                                                          | Not irritant (respiratory tract).                                               |
| Symptoms:                                                               |       |      |         |                        |                                                          | mucous membrane irritation, coughing, respiratory distress, drying of the skin. |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:     | NOAEL | 3500 | mg/kg/d | Rat                    |                                                          | 90d                                                                             |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 10   | mg/m3   | Rat                    |                                                          | 90d                                                                             |

| Talc                               |          |       |       |          |                                              |                            |
|------------------------------------|----------|-------|-------|----------|----------------------------------------------|----------------------------|
| Toxicity / effect                  | Endpoint | Value | Unit  | Organism | Test method                                  | Notes                      |
| Acute toxicity, by oral route:     | LD50     | >5000 | mg/kg | Rat      |                                              |                            |
| Acute toxicity, by dermal route:   | LD50     | >2000 | mg/kg | Rat      |                                              |                            |
| Skin corrosion/irritation:         |          |       |       | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant               |
| Skin corrosion/irritation:         |          |       |       |          |                                              | Not irritant               |
| Respiratory or skin sensitisation: |          |       |       |          |                                              | Not sensitising            |
| Germ cell mutagenicity:            |          |       |       |          | OECD 471 (Bacterial Reverse Mutation Test)   | Negative                   |
| Carcinogenicity:                   |          |       |       |          |                                              | Negative                   |
| Reproductive toxicity:             |          |       |       | Rat      |                                              | Negative                   |
| Symptoms:                          |          |       |       |          |                                              | mucous membrane irritation |

## Carbon black

| Toxicity / effect                                                   | Endpoint | Value  | Unit  | Organism   | Test method                                  | Notes                                |
|---------------------------------------------------------------------|----------|--------|-------|------------|----------------------------------------------|--------------------------------------|
| Acute toxicity, by oral route:                                      | LD50     | >2000  | mg/kg | Rat        |                                              |                                      |
| Acute toxicity, by dermal route:                                    | LD50     | >3000  | mg/kg |            |                                              |                                      |
| Skin corrosion/irritation:                                          |          |        |       | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant                         |
| Serious eye damage/irritation:                                      |          |        |       | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)    | Not irritant                         |
| Respiratory or skin sensitisation:                                  |          |        |       | Guinea pig | OECD 406 (Skin Sensitisation)                | Not sensitising                      |
| Germ cell mutagenicity:                                             |          |        |       |            | OECD 471 (Bacterial Reverse Mutation Test)   | Negative                             |
| Carcinogenicity:                                                    |          |        |       | Mouse      |                                              | Negative                             |
| Specific target organ toxicity - repeated exposure (STOT-RE):       | NOEL     | 0,0011 | mg/l  |            |                                              | References, Target organ(s): lung90d |
| Aspiration hazard:                                                  |          |        |       |            |                                              | No                                   |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL    | 137    | mg/kg | Mouse      |                                              |                                      |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL    | 52     | mg/kg | Rat        |                                              |                                      |

**Microcrystalline paraffin wax and hydrocarbon wax**

| Toxicity / effect                | Endpoint | Value | Unit  | Organism | Test method | Notes |
|----------------------------------|----------|-------|-------|----------|-------------|-------|
| Acute toxicity, by oral route:   | LD50     | >5000 | mg/kg | Rat      |             |       |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg | Rabbit   |             |       |

**11.2. Information on other hazards****Refills for cartridge pencil 0,9 mm****Art.: 610842**

| Toxicity / effect                | Endpoint | Value | Unit | Organism | Test method | Notes                                                                 |
|----------------------------------|----------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| Endocrine disrupting properties: |          |       |      |          |             | Does not apply to mixtures.                                           |
| Other information:               |          |       |      |          |             | No other relevant information available on adverse effects on health. |

**SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

**Refills for cartridge pencil 0,9 mm****Art.: 610842**

| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes  |
|------------------------------------------|----------|------|-------|------|----------|-------------|--------|
| 12.1. Toxicity to fish:                  |          |      |       |      |          |             | n.d.a. |
| 12.1. Toxicity to daphnia:               |          |      |       |      |          |             | n.d.a. |
| 12.1. Toxicity to algae:                 |          |      |       |      |          |             | n.d.a. |
| 12.2. Persistence and degradability:     |          |      |       |      |          |             | n.d.a. |
| 12.3. Bioaccumulative potential:         |          |      |       |      |          |             | n.d.a. |
| 12.4. Mobility in soil:                  |          |      |       |      |          |             | n.d.a. |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | n.d.a. |

[illegible]

|                                  |     |    |       |      |                  |                                                                                  |                    |
|----------------------------------|-----|----|-------|------|------------------|----------------------------------------------------------------------------------|--------------------|
| 12.3. Bioaccumulative potential: |     |    |       |      |                  |                                                                                  | Not to be expected |
| Toxicity to bacteria:            | EC0 | 3h | >=800 | mg/l | activated sludge | Regulation (EC) 440/2008 C.22 (SOIL MICROORGANISMS - CARBON TRANSFORMATION TEST) |                    |

**Microcrystalline paraffin wax and hydrocarbon wax**

| Toxicity / effect                        | Endpoint | Time | Value   | Unit | Organism            | Test method                                      | Notes                               |
|------------------------------------------|----------|------|---------|------|---------------------|--------------------------------------------------|-------------------------------------|
| 12.2. Persistence and degradability:     |          | 28d  | 31      | %    |                     |                                                  |                                     |
| 12.1. Toxicity to fish:                  | LL50     | 96h  | > 100   | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test)             | Analogous conclusion                |
| 12.1. Toxicity to daphnia:               | EL50     | 24h  | > 10000 | mg/l | Daphnia magna       | OECD 202 (Daphnia sp. Acute Immobilisation Test) | Analogous conclusion                |
| 12.1. Toxicity to algae:                 | ErC50    | 24h  | >10000  | mg/l |                     |                                                  |                                     |
| 12.5. Results of PBT and vPvB assessment |          |      |         |      |                     |                                                  | No PBT substance, No vPvB substance |

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****For the substance / mixture / residual amounts**

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

16 03 05 organic wastes containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

**For contaminated packing material**

Pay attention to local and national official regulations.

Empty container completely.

Untampered packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

**SECTION 14: Transport information****General statements**

14.1. UN number or ID number:

Not applicable

**Transport by road/by rail (ADR/RID)**

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

n.a.

14.4. Packing group:

Not applicable

Classification code:

Not applicable

LQ:

Not applicable

14.5. Environmental hazards:

Not applicable

Tunnel restriction code:

**Transport by sea (IMDG-code)**

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

n.a.

14.4. Packing group:

Not applicable

Page 11 of 13  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 19.10.2022 / 0004  
 Replacing version dated / version: 01.11.2021 / 0003  
 Valid from: 19.10.2022  
 PDF print date: 19.10.2022  
 Refills for cartridge pencil 0,9 mm  
 Art.: 610842

Marine Pollutant: n.a.  
 14.5. Environmental hazards: Not applicable

### Transport by air (IATA)

14.2. UN proper shipping name:  
 14.3. Transport hazard class(es): n.a.  
 14.4. Packing group: Not applicable  
 14.5. Environmental hazards: Not applicable

### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

## SECTION 15: Regulatory information

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

Observe restrictions:  
 General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC): 0 %

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 8

### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H351 Suspected of causing cancer by inhalation.

Carc. — Carcinogenicity

### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

## Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BCF Bioconcentration factor  
 BSEF The International Bromine Council  
 bw body weight  
 CAS Chemical Abstracts Service  
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 DOC Dissolved organic carbon  
 dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)  
 EC European Community  
 ECHA European Chemicals Agency  
 ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect  
 EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 ErCx, EμCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)  
 etc. et cetera  
 EU European Union  
 EVAL Ethylene-vinyl alcohol copolymer  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 Koc Adsorption coefficient of organic carbon in the soil  
 Kow octanol-water partition coefficient  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC (Code) International Bulk Chemical (Code)  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 IUPAC International Union for Pure Applied Chemistry  
 LC50 Lethal Concentration to 50 % of a test population  
 LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
 Log Koc Logarithm of adsorption coefficient of organic carbon in the soil  
 Log Kow, Log Pow Logarithm of octanol-water partition coefficient  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 NIOSH National Institute for Occupational Safety and Health (USA)  
 NLP No-longer-Polymer  
 NOEC, NOEL No Observed Effect Concentration/Level  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 OSHA Occupational Safety and Health Administration (USA)  
 PBT persistent, bioaccumulative and toxic  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 ppm parts per million  
 PVC Polyvinylchloride  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

Page 13 of 13

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 19.10.2022 / 0004

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Refills for cartridge pencil 0,9 mm

Art.: 610842

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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