

## SAFETY DATA SHEET

## C.A.R.FIT 2K HS Acryl Primer Filler 4:1

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

## 1.1. Product identifier

## ▼ Trade name

C.A.R.FIT 2K HS Acryl Primer Filler 4:1

## ▼ Other names / Synonyms

C.A.R.FIT 2K HS Acryl Primer Filler 4:1

## Product no.

4-10X/-20X-0800/-3600

## Unique formula identifier (UFI)

SF30-2048-K00F-9XT8

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

## Relevant identified uses of the substance or mixture

Filler, primer paint

Restricted to professional users.

## ▼ Use descriptors (REACH)

**Sectors of use**

LCS "IS" Industrial uses: Uses of substances as such or in preparations at industrial sites

LCS "PW" Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

LCS "C" Consumer uses: Private households (= general public = consumers)

**Product category**

PC 14 Metal surface treatment products, including galvanic and electroplating products

PC 15 Non-metal-surface treatment products

**Environmental release category**

ERC 8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

ERC 8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix

## ▼ EuPCS

PC-PNT-3 / Paints/coatings - Protective and functional

PC-PNT-5 / Automotive and aerospace coatings

## Uses advised against

None known.

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

## Company and address

**August Handel GmbH**

Ahornstraße 12

14959 Trebbin

Germany

+49 (0)33731 70 79 60

www.augusthandel.com

## E-mail

info@augusthandel.com

## Revision

11/08/2025

## SDS Version

4.0

## Date of previous version

24/03/2024 (3.0)

## 1.4. ▼ Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)

General public:

England - Dial 111 to reach NHS 111 (24 hour service)

Scotland - Dial 111 to reach NHS 24 (24 hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)

See section 4 "First aid measures".

## SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

## 2.1. Classification of the substance or mixture

Flam. Liq. 3; H226, Flammable liquid and vapour.

Skin Irrit. 2; H315, Causes skin irritation.

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

## 2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Flammable liquid and vapour. (H226)

Causes skin irritation. (H315)

Harmful to aquatic life with long lasting effects. (H412)

Precautionary statement(s)

General

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Wear protective gloves/protective clothing/eye protection. (P280)

Response

IF ON SKIN: Wash with plenty of water and soap. (P302+P352)

IF exposed or concerned: Get medical advice/attention. (P308+P313)

In case of fire: Use powder/carbonic acid to extinguish. (P370+P378)

Storage

Store locked up. (P405)

▼ Disposal

Dispose of contents/container in accordance with local regulation. (P501)

▼ Hazardous substances

Does not contain any substances required to report

Additional labelling

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

UFI: SF30-2048-K00F-9XT8

VOC

VOC content: 465 g/L

MAXIMUM VOC CONTENT (Phase II, category B/c1: 540 g/L)

## 2.3. Other hazards

▼ Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable. This product is a mixture.

#### 3.2. ▼ Mixtures

| Product/substance                                                                                        | Identifiers                                                                      | % w/w  | Classification                                                                        | Note |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|------|
| Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )                                  | CAS No.: 14807-96-6<br>EC No.: 238-877-9<br>UK-REACH:<br>Index No.:              | <15%   |                                                                                       |      |
| p-xylene;m-xylene;xylene;o-xylene                                                                        | CAS No.: 1330-20-7<br>EC No.: 215-535-7<br>UK-REACH:<br>Index No.: 601-022-00-9  | <15%   | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Skin Irrit. 2, H315<br>Acute Tox. 4, H332 | [1]  |
| n-butyl acetate                                                                                          | CAS No.: 123-86-4<br>EC No.: 204-658-1<br>UK-REACH:<br>Index No.: 607-025-00-1   | <10%   | EUH066<br>Flam. Liq. 3, H226<br>STOT SE 3, H336                                       | [1]  |
| 2-methoxy-1-methylethyl acetate                                                                          | CAS No.: 108-65-6<br>EC No.: 203-603-9<br>UK-REACH:<br>Index No.:                | <10%   | Flam. Liq. 3, H226<br>STOT SE 3, H336                                                 | [1]  |
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | CAS No.: 13463-67-7<br>EC No.: 236-675-5<br>UK-REACH:<br>Index No.: 022-006-00-2 | 7 - 8% | Carc. 2, H351                                                                         | [17] |
| ethylbenzene                                                                                             | CAS No.: 100-41-4<br>EC No.: 202-849-4<br>UK-REACH:<br>Index No.: 601-023-00-4   | <5%    | Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Acute Tox. 4, H332<br>STOT RE 2, H373      | [1]  |
| trizinc bis(orthophosphate)                                                                              | CAS No.: 7779-90-0<br>EC No.: 231-944-3<br>UK-REACH:<br>Index No.: 030-011-00-6  | <1%    | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)                          |      |
| methyl methacrylate methyl 2-methylprop-2-enoate methyl 2-methylpropenoate                               | CAS No.: 80-62-6<br>EC No.: 201-297-1<br>UK-REACH:<br>Index No.: 607-035-00-6    | <0,1%  | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>STOT SE 3, H335    | [1]  |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

[1] European occupational exposure limit.

[17] The classification as a carcinogen is not taken into consideration when classifying the product as the product is not delivered in powder form/contains less than 1 % titanium dioxide on particle form with an aerodynamic diameter ≤ 10 µm (UK-CLP, Annex VI, note 10).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

#### Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system.

Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Flammable liquid and vapour.

In use may form flammable/explosive vapour-air mixture.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

### 5.3. ▼ Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

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

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

## 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

## 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/lighting/ventilating] equipment.

Use non-sparking tools.

Take action to prevent static discharges.

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Take action to prevent static discharges.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

## Recommended storage material

Always store in containers of the same material as the original container.

## Storage conditions

Room temperature 15 to 25°C

## Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

## 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

## 8.1. ▼ Control parameters

Talc ( $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$ )

Long term exposure limit (8 hours) ( $\text{mg}/\text{m}^3$ ): 1

p-xylene;m-xylene;xylene;o-xylene

Long term exposure limit (8 hours) (ppm): 50

Long term exposure limit (8 hours) ( $\text{mg}/\text{m}^3$ ): 220

Short term exposure limit (15 minutes) (ppm): 100

Short term exposure limit (15 minutes) ( $\text{mg}/\text{m}^3$ ): 441

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

#### Annotations:

BMVG = Biological Monitoring Guidance Value exists

Sk = Can be absorbed through the skin and lead to systemic toxicity.

#### n-butyl acetate

Long term exposure limit (8 hours) (ppm): 150

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 724

Short term exposure limit (15 minutes) (ppm): 200

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 966

#### 2-methoxy-1-methylethyl acetate

Long term exposure limit (8 hours) (ppm): 50

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 274

Short term exposure limit (15 minutes) (ppm): 100

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 548

#### Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 10(inhalable)/4(respirable)

#### ethylbenzene

Long term exposure limit (8 hours) (ppm): 100

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 441

Short term exposure limit (15 minutes) (ppm): 125

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 552

#### Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

methyl methacrylate methyl 2-methylprop-2-enoate methyl 2-methylpropenoate

Long term exposure limit (8 hours) (ppm): 50

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 208

Short term exposure limit (15 minutes) (ppm): 100

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 416

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.  
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

#### ▼ DNEL

##### 2-methoxy-1-methylethyl acetate

| Duration:                                          | Route of exposure: | DNEL:                 |
|----------------------------------------------------|--------------------|-----------------------|
| Long term – Systemic effects - General population  | Dermal             | 320 mg/kg bw/day      |
| Long term – Systemic effects - Workers             | Dermal             | 796 mg/kg bw/day      |
| Long term – Local effects - General population     | Inhalation         | 33 mg/m <sup>3</sup>  |
| Long term – Systemic effects - General population  | Inhalation         | 33 mg/m <sup>3</sup>  |
| Long term – Systemic effects - Workers             | Inhalation         | 275 mg/m <sup>3</sup> |
| Short term – Local effects - Workers               | Inhalation         | 550 mg/m <sup>3</sup> |
| Long term – Systemic effects - General population  | Oral               | 36 mg/kg bw/day       |
| Short term – Systemic effects - General population | Oral               | 500 mg/kg bw/day      |

##### ethylbenzene

| Duration:                                         | Route of exposure: | DNEL:                 |
|---------------------------------------------------|--------------------|-----------------------|
| Long term – Systemic effects - Workers            | Dermal             | 180 mg/kg bw/day      |
| Long term – Local effects - Workers               | Inhalation         | 442 mg/m <sup>3</sup> |
| Long term – Systemic effects - General population | Inhalation         | 15 mg/m <sup>3</sup>  |
| Long term – Systemic effects - Workers            | Inhalation         | 77 mg/m <sup>3</sup>  |

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|                                                   |            |                       |
|---------------------------------------------------|------------|-----------------------|
| Short term – Local effects - Workers              | Inhalation | 293 mg/m <sup>3</sup> |
| Long term – Systemic effects - General population | Oral       | 1.6 mg/kg bw/day      |

#### methyl methacrylate methyl 2-methylprop-2-enoate methyl 2-methylpropenoate

| Duration:                                         | Route of exposure: | DNEL:                   |
|---------------------------------------------------|--------------------|-------------------------|
| Long term – Local effects - General population    | Dermal             | 1.5 mg/cm <sup>2</sup>  |
| Long term – Local effects - Workers               | Dermal             | 1.5 mg/cm <sup>2</sup>  |
| Long term – Systemic effects - General population | Dermal             | 8.2 mg/kg bw/day        |
| Long term – Systemic effects - Workers            | Dermal             | 13.67 mg/kg bw/day      |
| Short term – Local effects - General population   | Dermal             | 1.5 mg/cm <sup>2</sup>  |
| Short term – Local effects - Workers              | Dermal             | 1.5 mg/cm <sup>2</sup>  |
| Long term – Local effects - General population    | Inhalation         | 104 mg/m <sup>3</sup>   |
| Long term – Local effects - Workers               | Inhalation         | 208 mg/m <sup>3</sup>   |
| Long term – Systemic effects - General population | Inhalation         | 74.3 mg/m <sup>3</sup>  |
| Long term – Systemic effects - Workers            | Inhalation         | 348.4 mg/m <sup>3</sup> |
| Short term – Local effects - General population   | Inhalation         | 208 mg/m <sup>3</sup>   |
| Short term – Local effects - Workers              | Inhalation         | 416 mg/m <sup>3</sup>   |
| Long term – Systemic effects - General population | Oral               | 8.2 mg/kg bw/day        |

#### n-butyl acetate

| Duration:                                          | Route of exposure: | DNEL:                  |
|----------------------------------------------------|--------------------|------------------------|
| Long term                                          | -                  |                        |
| Short term                                         | -                  |                        |
| Long term – Systemic effects - General population  | Dermal             | 3.4 mg/kg bw/day       |
| Long term – Systemic effects - Workers             | Dermal             | 7 mg/kg bw/day         |
| Short term – Systemic effects - General population | Dermal             | 6 mg/kg bw/day         |
| Short term – Systemic effects - Workers            | Dermal             | 11 mg/kg bw/day        |
| Long term – Local effects - General population     | Inhalation         | 35.7 mg/m <sup>3</sup> |
| Long term – Local effects - Workers                | Inhalation         | 300 mg/m <sup>3</sup>  |
| Long term – Systemic effects - General population  | Inhalation         | 12 mg/m <sup>3</sup>   |
| Long term – Systemic effects - Workers             | Inhalation         | 48 mg/m <sup>3</sup>   |
| Short term – Local effects - General population    | Inhalation         | 300 mg/m <sup>3</sup>  |
| Short term – Local effects - Workers               | Inhalation         | 600 mg/m <sup>3</sup>  |
| Short term – Systemic effects - General population | Inhalation         | 300 mg/m <sup>3</sup>  |
| Short term – Systemic effects - Workers            | Inhalation         | 600 mg/m <sup>3</sup>  |
| Long term – Systemic effects - General population  | Oral               | 2 mg/kg bw/day         |
| Short term – Systemic effects - General population | Oral               | 2 mg/kg bw/day         |

#### p-xylene;m-xylene;xylene;o-xylene

| Duration:                                         | Route of exposure: | DNEL:                  |
|---------------------------------------------------|--------------------|------------------------|
| Long term – Systemic effects - General population | Dermal             | 125 mg/kg bw/day       |
| Long term – Systemic effects - Workers            | Dermal             | 212 mg/kg bw/day       |
| Long term – Local effects - General population    | Inhalation         | 65.3 mg/m <sup>3</sup> |
| Long term – Local effects - Workers               | Inhalation         | 221 mg/m <sup>3</sup>  |
| Long term – Systemic effects - General population | Inhalation         | 65.3 mg/m <sup>3</sup> |
| Long term – Systemic effects - Workers            | Inhalation         | 221 mg/m <sup>3</sup>  |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

|                                                    |            |                       |
|----------------------------------------------------|------------|-----------------------|
| Short term – Local effects - General population    | Inhalation | 260 mg/m <sup>3</sup> |
| Short term – Local effects - Workers               | Inhalation | 442 mg/m <sup>3</sup> |
| Short term – Systemic effects - General population | Inhalation | 260 mg/m <sup>3</sup> |
| Short term – Systemic effects - Workers            | Inhalation | 442 mg/m <sup>3</sup> |
| Long term – Systemic effects - General population  | Oral       | 5 mg/kg bw/day        |

#### Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

| Duration:                                          | Route of exposure: | DNEL:                   |
|----------------------------------------------------|--------------------|-------------------------|
| Long term – Local effects - General population     | Dermal             | 2.27 mg/cm <sup>2</sup> |
| Long term – Local effects - Workers                | Dermal             |                         |
| Long term – Local effects - Workers                | Dermal             | 4.54 mg/cm <sup>2</sup> |
| Long term – Systemic effects - General population  | Dermal             | 21.6 mg/kg bw/day       |
| Long term – Systemic effects - Workers             | Dermal             |                         |
| Long term – Systemic effects - Workers             | Dermal             | 43.2 mg/kg bw/day       |
| Long term – Local effects - General population     | Inhalation         | 1.8 mg/m <sup>3</sup>   |
| Long term – Local effects - Workers                | Inhalation         |                         |
| Long term – Local effects - Workers                | Inhalation         | 3.6 mg/m <sup>3</sup>   |
| Long term – Systemic effects - General population  | Inhalation         | 1.08 mg/m <sup>3</sup>  |
| Long term – Systemic effects - Workers             | Inhalation         |                         |
| Long term – Systemic effects - Workers             | Inhalation         | 2.16 mg/m <sup>3</sup>  |
| Short term – Local effects - General population    | Inhalation         | 1.8 mg/m <sup>3</sup>   |
| Short term – Local effects - Workers               | Inhalation         | 3.6 mg/m <sup>3</sup>   |
| Short term – Systemic effects - General population | Inhalation         | 1.08 mg/m <sup>3</sup>  |
| Short term – Systemic effects - Workers            | Inhalation         |                         |
| Short term – Systemic effects - Workers            | Inhalation         |                         |
| Short term – Systemic effects - Workers            | Inhalation         | 2.16 mg/m <sup>3</sup>  |
| Long term – Systemic effects - General population  | Oral               | 160 mg/kg bw/day        |
| Short term – Systemic effects - General population | Oral               | 160 mg/kg bw/day        |

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| Duration:                                      | Route of exposure: | DNEL:                 |
|------------------------------------------------|--------------------|-----------------------|
| Long term – Local effects - General population | Inhalation         | 28 µg/m <sup>3</sup>  |
| Long term – Local effects - Workers            | Inhalation         | 170 µg/m <sup>3</sup> |

#### trizinc bis(orthophosphate)

| Duration:                                         | Route of exposure: | DNEL:                 |
|---------------------------------------------------|--------------------|-----------------------|
| Long term – Systemic effects - General population | Dermal             | 83 mg/kg bw/day       |
| Long term – Systemic effects - Workers            | Dermal             | 83 mg/kg bw/day       |
| Long term – Systemic effects - General population | Inhalation         | 2.5 mg/m <sup>3</sup> |
| Long term – Systemic effects - Workers            | Inhalation         | 5 mg/m <sup>3</sup>   |
| Long term – Systemic effects - General population | Oral               | 830 µg/kg bw/day      |

#### ▼ PNEC

##### 2-methoxy-1-methylethyl acetate

| Route of exposure:  | Duration of Exposure: | PNEC:      |
|---------------------|-----------------------|------------|
| Freshwater          |                       | 635 µg/L   |
| Freshwater sediment |                       | 3.29 mg/kg |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

|                                                                                   |                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------|
| Intermittent release (freshwater)                                                 | 6.35 mg/L                                 |
| Marine water                                                                      | 63.5 µg/L                                 |
| Marine water sediment                                                             | 329 µg/kg                                 |
| Sewage treatment plant                                                            | 100 mg/L                                  |
| Soil                                                                              | 290 µg/kg                                 |
| <b>ethylbenzene</b>                                                               |                                           |
| <b>Route of exposure:</b>                                                         | <b>Duration of Exposure:</b> <b>PNEC:</b> |
| Freshwater                                                                        | 100 µg/L                                  |
| Freshwater sediment                                                               | 13.7 mg/kg                                |
| Intermittent release (freshwater)                                                 | 100 µg/L                                  |
| Marine water                                                                      | 10-100 µg/L                               |
| Marine water sediment                                                             | 1.37 mg/kg                                |
| Predators                                                                         | 20 mg/kg                                  |
| Sewage treatment plant                                                            | 9.6 mg/L                                  |
| Soil                                                                              | 2.68 mg/kg                                |
| <b>methyl methacrylate methyl 2-methylprop-2-enoate methyl 2-methylpropenoate</b> |                                           |
| <b>Route of exposure:</b>                                                         | <b>Duration of Exposure:</b> <b>PNEC:</b> |
| Freshwater                                                                        | 940 µg/L                                  |
| Freshwater sediment                                                               | 10.2 mg/kg                                |
| Intermittent release (freshwater)                                                 | 940 µg/L                                  |
| Marine water                                                                      | 94 µg/L                                   |
| Marine water sediment                                                             | 102 µg/kg                                 |
| Sewage treatment plant                                                            | 10 mg/L                                   |
| Soil                                                                              | 1.48 mg/kg                                |
| <b>n-butyl acetate</b>                                                            |                                           |
| <b>Route of exposure:</b>                                                         | <b>Duration of Exposure:</b> <b>PNEC:</b> |
| Freshwater                                                                        | 180 µg/L                                  |
| Freshwater sediment                                                               | 981 µg/kg                                 |
| Intermittent release (freshwater)                                                 | 360 µg/L                                  |
| Marine water                                                                      | 18 µg/L                                   |
| Marine water sediment                                                             | 98.1 µg/kg                                |
| Sewage treatment plant                                                            | 35.6 mg/L                                 |
| Soil                                                                              | 90.3 µg/kg                                |
| <b>p-xylene;m-xylene;xylene;o-xylene</b>                                          |                                           |
| <b>Route of exposure:</b>                                                         | <b>Duration of Exposure:</b> <b>PNEC:</b> |
| Freshwater                                                                        | 44-327 µg/L                               |
| Freshwater sediment                                                               | 2.52-12.46 mg/kg                          |
| Intermittent release (freshwater)                                                 | 10-327 µg/L                               |
| Intermittent release (marine water)                                               | 1 µg/L                                    |
| Marine water                                                                      | 4.4-327 µg/L                              |
| Marine water sediment                                                             | 252-12460 µg/kg                           |
| Sewage treatment plant                                                            | 1.6-6.58 mg/L                             |
| Soil                                                                              | 852-2310 µg/kg                            |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

#### Talc ( $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$ )

| Route of exposure:                  | Duration of Exposure: | PNEC:                |
|-------------------------------------|-----------------------|----------------------|
| Air                                 | -                     |                      |
| Air                                 |                       | 10 mg/m <sup>3</sup> |
| Freshwater                          | -                     |                      |
| Freshwater                          |                       | 597.97 mg/L          |
| Freshwater sediment                 |                       | 31.33 mg/kg          |
| Intermittent release (freshwater)   |                       | 597.97 mg/L          |
| Intermittent release (marine water) |                       | 141.26 mg/L          |
| Marine water                        | -                     |                      |
| Marine water                        |                       | 141.26 mg/L          |
| Marine water sediment               |                       | 3.13 mg/kg           |

#### trizinc bis(orthophosphate)

| Route of exposure:     | Duration of Exposure: | PNEC:       |
|------------------------|-----------------------|-------------|
| Freshwater             |                       | 20.6 µg/L   |
| Freshwater sediment    |                       | 117.8 mg/kg |
| Marine water           |                       | 6.1 µg/L    |
| Marine water sediment  |                       | 56.5 mg/kg  |
| Sewage treatment plant |                       | 100 µg/L    |
| Soil                   |                       | 35.6 mg/kg  |

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

There are no exposure scenarios implemented for this product.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

### Hygiene measures

Take off contaminated clothing and wash it before reuse.

### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

## Individual protection measures, such as personal protective equipment

### Generally

Use only UKCA marked protective equipment.

### Respiratory Equipment

| Type                                                                                                                                                                | Class | Colour | Standards |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-----------|
| In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. |       |        |           |



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

#### ▼ Skin protection

| Recommended                                                                                                      | Type/Category | Standards |                                                                                     |
|------------------------------------------------------------------------------------------------------------------|---------------|-----------|-------------------------------------------------------------------------------------|
| Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester. | -             | -         |  |

#### ▼ Hand protection

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards |                                                                                     |
|----------|----------------------|--------------------------|-----------|-------------------------------------------------------------------------------------|
| Gloves   | -                    | -                        | EN374     |  |

#### ▼ Eye protection

| Type                              | Standards      |                                                                                     |
|-----------------------------------|----------------|-------------------------------------------------------------------------------------|
| Safety glasses with side shields. | EN ISO 16321-1 |  |

## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### ▼ Colour

White, Black, Gray

#### Odour / Odour threshold

Solvent

#### ▼ pH

Not applicable - water solubility < 1 mg/L @ 20°C

#### Density (g/cm<sup>3</sup>)

1,45-1,65 (20 °C)

#### Kinematic viscosity

No data available

#### Particle characteristics

No data available

#### Phase changes

##### Melting point/Freezing point (°C)

No data available

##### Softening point/range (°C)

Does not apply to liquids.

##### Boiling point (°C)

No data available

##### Vapour pressure

No data available

##### Relative vapour density

No data available

##### Decomposition temperature (°C)

No data available

#### Data on fire and explosion hazards

##### Flash point (°C)

23-25

##### Flammability (°C)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

The material is ignitable.

Auto-ignition temperature (°C)

No data available

Lower and upper explosion limit (% v/v)

1.1 - 10.1

#### Solubility

Solubility in water

Insoluble

n-octanol/water coefficient (LogKow)

No data available

Solubility in fat (g/L)

No data available

#### 9.2. Other information

Evaporation rate (n-butylacetate = 100)

No data available

VOC (g/L)

465

TOC (g/l)

0,187

Other physical and chemical parameters

No data available.

Oxidizing properties

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Highly reactive and can auto-polymerize as a result of internal peroxide accumulation. The peroxides formed in these reactions are extremely shock- and heat-sensitive.

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. ▼ Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Frost

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. ▼ Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

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

##### ▼ Acute toxicity

|                    |                                                                         |
|--------------------|-------------------------------------------------------------------------|
| Product/substance  | Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) |
| Species:           | Rat                                                                     |
| Route of exposure: | Oral                                                                    |
| Test:              | LD50                                                                    |
| Result:            | 3870 - 5000 mg/kg bw ·                                                  |

|                    |                                                                         |
|--------------------|-------------------------------------------------------------------------|
| Product/substance  | Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) |
| Species:           | Rat                                                                     |
| Route of exposure: | Inhalation                                                              |
| Test:              | LC50                                                                    |
| Result:            | 2,1 mg/L air ·                                                          |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance Talc ( $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$ )  
 Species: Rat  
 Route of exposure: Dermal  
 Test: LD50  
 Result: 2000 mg/kg bw ·

Product/substance n-butyl acetate  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: 10768 mg/kg ·

Product/substance n-butyl acetate  
 Species: Mouse  
 Route of exposure: Oral  
 Test: LD50  
 Result: 6 mg/kg ·

Product/substance n-butyl acetate  
 Species: Rat  
 Route of exposure: Inhalation  
 Test: LC50  
 Result: 21,0 mg/l 4h ·

Product/substance n-butyl acetate  
 Species: Rat  
 Route of exposure: Dermal  
 Test: LD50  
 Result: 10760 mg/kg ·

Product/substance n-butyl acetate  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: 10770 mg/kg ·

Product/substance n-butyl acetate  
 Species: Rabbit  
 Route of exposure: Dermal  
 Test: LD50  
 Result: >17600 mg/kg ·

Product/substance n-butyl acetate  
 Species: Rat  
 Route of exposure: Inhalation  
 Test: LC50  
 Result: >21,0 mg/m<sup>3</sup> ·

Product/substance trizinc bis(orthophosphate)  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: >5000 mg/kg ·

Product/substance trizinc bis(orthophosphate)  
 Species: Mouse  
 Route of exposure: Oral  
 Test: LD50  
 Result: 522 mg/kg ·

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

[Skin corrosion/irritation](#)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Causes skin irritation.

#### Serious eye damage/irritation

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

#### Respiratory sensitisation

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

#### Skin sensitisation

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

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

### 11.2. Information on other hazards

#### Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.

Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system.

Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### ▼ Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

#### Other information

Talc ( $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$ ) has been classified by IARC as a group 3 carcinogen.

p-xylene;m-xylene;xylene;o-xylene has been classified by IARC as a group 3 carcinogen.

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] has been classified by IARC as a group 2B carcinogen.

ethylbenzene has been classified by IARC as a group 2B carcinogen.

methyl methacrylate methyl 2-methylprop-2-enoate methyl 2-methylpropenoate has been classified by IARC as a group 3 carcinogen.

## SECTION 12: Ecological information

### 12.1. ▼ Toxicity

|                   |                                                  |
|-------------------|--------------------------------------------------|
| Product/substance | Talc ( $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$ ) |
| Species:          | Fish                                             |
| Duration:         | 96 hours                                         |
| Test:             | LC50                                             |
| Result:           | 89,581 g/L ·                                     |

|                   |                                                  |
|-------------------|--------------------------------------------------|
| Product/substance | Talc ( $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$ ) |
| Species:          | Fish                                             |
| Duration:         | 30 days                                          |
| Test:             | EC10                                             |
| Result:           | 5,98 g/L ·                                       |

|                   |                                                  |
|-------------------|--------------------------------------------------|
| Product/substance | Talc ( $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$ ) |
| Species:          | Aquatic invertebrates                            |
| Duration:         | 48 hours                                         |
| Test:             | LC50                                             |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result: 36,812 g/L ·

Product/substance Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)  
 Species: Aquatic invertebrates  
 Duration: 30 days  
 Test: EC10  
 Result: 1,46 g/L ·

Product/substance Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)  
 Species: Algae  
 Duration: 96 hours  
 Test: EC50  
 Result: 7,203 g/L ·

Product/substance Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)  
 Species: Algae  
 Duration: 30 days  
 Test: NOEC  
 Result: 918,089 mg/L ·

Product/substance n-butyl acetate  
 Species: Fish  
 Duration: 96 hours  
 Test: LC50  
 Result: 18 mg/L ·

Product/substance n-butyl acetate  
 Species: Fish  
 Duration: 96 hours  
 Test: LC50  
 Result: 100 mg/L ·

Product/substance n-butyl acetate  
 Species: Fish  
 Duration: 96 hours  
 Test: LC50  
 Result: 185 mg/L ·

Product/substance n-butyl acetate  
 Species: Fish  
 Duration: 96 hours  
 Test: LC50  
 Result: 62 mg/L ·

Product/substance n-butyl acetate  
 Species: Crustacean  
 Duration: 48 hours  
 Test: EC50  
 Result: 32 mg/L ·

Product/substance n-butyl acetate  
 Species: Daphnia  
 Duration: 48 hours  
 Test: EC50  
 Result: 44 mg/L ·

Product/substance n-butyl acetate  
 Species: Algae  
 Duration: 96 hours  
 Test: EC50  
 Result: 320 mg/L ·

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

|                   |                 |
|-------------------|-----------------|
| Product/substance | n-butyl acetate |
| Species:          | Daphnia         |
| Duration:         | 24 hours        |
| Test:             | LC50            |
| Result:           | 205 mg/L ·      |

|                   |                             |
|-------------------|-----------------------------|
| Product/substance | trizinc bis(orthophosphate) |
| Species:          | Algae                       |
| Duration:         | 72 hours                    |
| Test:             | EC50                        |
| Result:           | 0,136 mg/l ·                |

|                   |                             |
|-------------------|-----------------------------|
| Product/substance | trizinc bis(orthophosphate) |
| Species:          | Daphnia                     |
| Duration:         | 48 hours                    |
| Test:             | EC50                        |
| Result:           | 0,04 mg/l ·                 |

|                   |                             |
|-------------------|-----------------------------|
| Product/substance | trizinc bis(orthophosphate) |
| Species:          | Fish                        |
| Duration:         | 96 hours                    |
| Test:             | LC50                        |
| Result:           | 0,14 mg/l ·                 |

Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

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

#### 12.3. Bioaccumulative potential

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

#### 12.4. ▼ Mobility in soil

No data available.

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

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

#### 12.6. ▼ Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

#### 12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

### SECTION 13: Disposal considerations

#### 13.1. ▼ Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*)

HP 3 - Flammable

HP 7 - Carcinogenic

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

##### ▼ EWC code

08 01 11\* Waste paint and varnish containing organic solvents or other dangerous substances

15 01 10\* Packaging containing residues of or contaminated by dangerous substances

##### ▼ Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

### SECTION 14: Transport information

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

|      | 14.1<br>UN / ID | 14.2<br>UN proper shipping name | 14.3<br>Hazard class(es)                                                                                                                                | 14.4<br>PG* | 14.5<br>Env** | Other<br>information:                                                                                  |
|------|-----------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|--------------------------------------------------------------------------------------------------------|
| ADR  | UN1263          | PAINT                           | Transport hazard class: 3<br>Label: 3<br>Classification code: F1<br>   | III         | No            | Limited quantities: 5 L<br>Tunnel restriction code: (D/E)<br>See below for additional information<br>. |
| IMDG | UN1263          | PAINT                           | Transport hazard class: 3<br>Label: 3<br>Classification code: F1<br>   | III         | No            | Limited quantities: 5 L<br>EmS: F-E S-E<br>See below for additional information<br>.                   |
| IATA | UN1263          | PAINT                           | Transport hazard class: 3<br>Label: 3<br>Classification code: F1<br> | III         | No            | See below for additional information<br>.                                                              |

\* Packing group

\*\* Environmental hazards

▼ Additional information

This product is within scope of the regulations of transport of dangerous goods.

Although this product is environmentally hazardous, the environmentally hazardous substance mark has been omitted as the product is supplied in packaging with a maximum quantity of 5 L / 5 kg.

-

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15: Regulatory information

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

▼ Restrictions for application

Restricted to professional users.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

#### Demands for specific education

No specific requirements.

#### SEVESO - Categories / dangerous substances

P5c - FLAMMABLE LIQUIDS, Qualifying quantity (lower-tier): 5.000 tonnes / (upper-tier): 50.000 tonnes

#### ▼ REACH, Annex XVII

p-xylene;m-xylene;xylene;o-xylene is subject to UK-REACH restrictions (entry 40).

n-butyl acetate is subject to UK-REACH restrictions (entry 40).

2-methoxy-1-methylethyl acetate is subject to UK-REACH restrictions (entry 40).

ethylbenzene is subject to UK-REACH restrictions (entry 40).

methyl methacrylate methyl 2-methylprop-2-enoate methyl 2-methylpropenoate is subject to UK-REACH restrictions (entry 40).

#### Additional information

Not applicable.

#### Sources

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Control of Major Accident Hazards (COMAH) Regulations 2015.

2012 No. 1715 ENVIRONMENTAL PROTECTION: The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

#### ▼ Full text of H-phrases as mentioned in section 3

H225, Repeated exposure may cause skin dryness or cracking.

H225, Highly flammable liquid and vapour.

H226, Flammable liquid and vapour.

H304, May be fatal if swallowed and enters airways.

H312, Harmful in contact with skin.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H332, Harmful if inhaled.

H335, May cause respiratory irritation.

H336, May cause drowsiness or dizziness.

H351, Suspected of causing cancer.

H373, May cause damage to organs through prolonged or repeated exposure.

H400, Very toxic to aquatic life.

H410, Very toxic to aquatic life with long lasting effects.

#### ▼ The full text of identified uses as mentioned in section 1

LCS "IS" = Industrial uses: Uses of substances as such or in preparations at industrial sites

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

LCS "C" = Consumer uses: Private households (= general public = consumers)

PC 14 = Metal surface treatment products, including galvanic and electroplating products

PC 15 = Non-metal-surface treatment products

ERC 8c = Wide dispersive indoor use resulting in inclusion into or onto a matrix

ERC 8f = Wide dispersive outdoor use resulting in inclusion into or onto a matrix

#### ▼ Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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CE = Conformité Européenne (European conformity)  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EuPCS = European Product Categorisation System  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
GWP = Global warming potential  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.  
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.  
The classification of the mixture in regard to physical hazards has been based on experimental data.

#### The safety data sheet is validated by

S. Grade

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.  
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.  
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.  
Country-language: GB-en