# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Product name: Speziallackfarbe, heat resistant up to 400 ° C
Date of printing: 18.10.2023

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

### 1.1 Product identifier

Product name: Speziallackfarbe, heat resistant up to 400 ° C

Unique Formula Identifier (UFI-Code): NR70-Q0XA-700P-CVMQ

Product type: silicone paint

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

Field of application: metal industry

Identified uses: Industrial applications, Professional applications, Used by spraying.

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

Producer/Supplier
Bisdorf GmbH
Industriestraße 49-51
D-52224 Stolberg

Telephone +49 (0) 2402 / 71048
Telefax +49 (0) 2402 / 75465
E-Mail adress bisdorf-lacke@arcor.de

### 1.4 Emergency telephone number

Emergency information: Information Center against Poisons
University Bonn
Telephone number: +49 (0)228 / 19240

Date of issue: 18.10.2023

Date of previous issue: 05.10.2021

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
The mixture is not classified as hazardous according to Regulation (EC) no. 1272/2008 [CLP].

### 2.2 Label elements

Hazard pictograms:


Signal word: -

Hazard statements: Not applicable.

Precautionary statements:
Prevention: Not applicable.

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Response: P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 - Get medical advice/attention if you feel unwell.
P331 - Do NOT induce vomiting.

Storage: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.

Disposal: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements: -

Indication at Labelling: Not applicable.

**2.3 Other hazards**

Endocrine disrupting properties (human health):
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties (environment):
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

PBT and vPvB assessment:
This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

| Product/ingredient name | Identifiers | % | **Classification** 1272/2008/EC (CLP) | Type |
|---|---|---|---|---|
| xylene (mixture of isomers) | REACH: 01-2119488216-32<br>CAS: 1330-20-7<br>EG: 215-535-7 | 1-3 | Flam. Liq. 3, H226 C<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373 (hearing organs) | [1] [2] |
| ethylbenzene | REACH: 01-2119489370-35<br>CAS: 100-41-4<br>EG: 202-849-4 | <1 | Flam. Liq. 2, H225 -<br>Asp. Tox. 1, H304<br>Acute Tox. 4, H332<br>STOT SE 3, H335<br>STOT RE 2, H373 (hearing organs) | [1] [2] |
| 1-methoxy-2-propanol (PM) | REACH: 01-2119457435-35<br>CAS: 107-98-2<br>EG: 203-539-1 | <1 | Flam. Liq. 3, H226 -<br>STOT SE 3, H336 | [1] [2] |
| 1-propoxy-2-propanol | REACH: 01-2119474443-37<br>CAS: 1569-01-3<br>EG: 216-372-4 | 1-5 | Flam. Liq. 3, H226 -<br>Eye Irrit. 2, H319 | [2] |

| Product/ingredient name | Identifiers | % | **Classification** 1272/2008/EC (CLP) | Type |
|---|---|---|---|---|
| aluminium powder (coated) | REACH: 01-2119529243-45<br>CAS: 7429-90-5<br>EG: 231-072-3 | 10-15 | Flam. Sol. 1, H228 -<br>Acute Tox. 4, H332 | [1] [2] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance does not meet the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.
[5] Substance of equivalent conce.

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information: In all cases of doubt, or when symptoms persist, seek medical attention. If unconscious, place in recovery position and get medical attention immediately. Never give anything by mouth to an unconscious person. In any case show the physician the Safety Data Sheet.

Inhalation: Remove affected persons from dangerous area by observing suitable respiratory Protection measures. Remove the casualty into fresh air and keep at rest. After intensive inhalation consult a doctor in every case, even if no symptoms occur.

Skin contact: Take off immediately all contaminated clothing. Wash contaminated clothing before reusing. Do not allow the product to dry on the skin. Wash skin thoroughly with soap and water or use recognised skin cleanser. Consult a doctor in case of persisting skin irritation.

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Begin with medical treatment.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention.

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

General information: When inhaled or swallowed depending on the time and amount, it can give rise to the following symptoms: headaches, giddiness, tiredness, nausea, vomiting, irregular heart beat, intoxication, unconsciousness, asphyxiation and fatality.

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

Notes to physician: Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable: Extinguishing measures to suit surroundings. In case of fire, use water spray jet, dry extinguishing powder, foam or carbon dioxide.

Not suitable: water jet.

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

Hazardous combustion Products: Fire will produce dense black smoke containing hazardous combustion products. In a fire, the following may be released: carbon dioxide, carbon monoxide, not combusted hydrocarbons.

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters: During fire-fighting wear self-contained breathing apparatus and protective clothing.

Additional information: The product is flammable. Use water spray to keep fire-exposed containers cool. Use extinguishing media suitable for surrounding materials. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

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

General information: To avoid fire, eliminate ignition sources. Provide adequate ventilation. Use personal protective equipment. Avoid contact with eyes, skin and clothing. Avoid breathing vapours, spray or mists.

### 6.2 Environmental precautions

General information: Do not discharge into the drains / surface waters / groundwater. Prevent spread over a wide area e.g. by containment or oil barriers.

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

General information: Absorb with liquid-binding material (sand, diatomite, universal binders etc.) or use a spill kit. Containers in which spilt substance has been collected must be adequately labelled. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

### 6.4 Reference to other sections

General information: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Protective measures: Keep away from sources of ignition - No smoking. Vapours may form explosive mixtures with air.
Take precautionary measures against electrostatic discharges. Provide good ventilation of working area. The working procedure should be planned as far as allowed by state-of-the-art technology so as to avoid release of hazardous substances or prevent skin contact. The level of risk involved in product handling must be reduced to a minimum by means of protective and preventive measures.

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

General information: Store in a dry, cool and well-ventilated area. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully

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resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations.

German storage class: 10 - Combustible liquids neither in Storage Class 3

**7.3 Specific end use(s)**

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**Occupational exposure limit values (Workplace Exposure Limits)**

| Product/ingrediet name | CAS-Nr. | Nota -tion | Identi-fier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Source |
|---|---|---|---|---|---|---|---|---|
| xylene (mixture of isomers) | 1330-20-7 | skin | IOELV | 50 | 221 | 100 | 442 | 2017/164/EU |
| ethylbenzene | 100-41-4 | skin | IOELV | 100 | 442 | 200 | 884 | 2017/164/EU |
| 1-methoxy-2-propanol (PM) | 107-98-2 | | IOLEV | 100 | 375 | 150 | 568 | 2017/164/EU |
| 1-propoxy-2-propanol | 1569-01-3 | | | 50 | | 75 | | Dow IHG |
| aluminium powder (coated) | 7429-90-5 | i | IOLEV | | 10 | | 20 | 2017/164/EU |
| aluminium powder (coated) | 7429-90-5 | r | IOLEV | | 1,25 | | 2,4 | 2017/164/EU |

Notation
i Inhalable fraction
STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified
r Respirable fraction
TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

DNELs/DMELs

| Product/ingredient name | | |
|---|---|---|
| xylene (mixture of isomers) | | |
| Oral | DNEL (population) | 1,6 mg/kg bw/day (Long-term - systemic effects) |
| Dermal | DNEL (worker) | 180 mg/kg bw/day (Long-term - systemic effects) |
| | DNEL (population) | 108 mg/kg bw/day (Long-term - systemic effects) |
| Inhalation | DNEL (worker) | 77 mg/m³ (Long-term - systemic effects) |
| | | 289 mg/m³ (Acute - systemic and local effects) |
| | DNEL (population) | 14,8 mg/m³ (Long-term - systemic effects) |
| | | 174 mg/m³ (Acute - systemic and local effects) |

| Product/ingredient name | | |
|---|---|---|
| ethylbenzene | | |
| Dermal | DNEL (worker) | 180 mg/kg bw/day (Long-term - systemic effects) |
| Inhalation | DNEL (worker) | 77 mg/m³ (Long-term - systemic effects) |
| | | 289 mg/m³ (Acute - systemic and local effects) |

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| Product/ingredient name | | |
|---|---|---|
| 1-methoxy-2-propanol (PM) | | |
| Oral | DNEL (population) | 3,3 mg/kg bw/day (Long-term - systemic effects) |
| Dermal | DNEL (worker) | 183 mg/kg bw/day (Long-term - systemic effects) |
| | DNEL (population) | 78 mg/kg bw/day (Long-term - systemic effects) |
| Inhalation | DNEL (worker) | 553,5 mg/m³ (Acute - local effects) |
| | | 369 mg/m³ (Long-term - systemic effects) |
| | DNEL (population) | 43,9 mg/m³ (Long-term - systemic effects) |

| Product/ingredient name | | |
|---|---|---|
| 1-propoxy-2-propanol | | |
| Oral | DNEL (population) | 2,2 mg/kg bw/day (Long-term - systemic effects) |
| Dermal | DNEL (worker) | 9 mg/kg bw/day (Long-term - systemic effects) |
| | DNEL (population) | 2,2 mg/kg bw/day (Long-term - systemic effects) |
| Inhalativ | DNEL (worker) | 217 mg/m³ (Long-term - systemic effects) |
| | DNEL (population) | 26 mg/m³ (Long-term - systemic effects) |

| Product/ingredient name | | |
|---|---|---|
| aluminium powder (coated) | | |
| Oral | DNEL (population) | 3,95 mg/kg bw/day (Long-term - systemic effects) |
| Inhalativ | DNEL (worker) | 3,72 mg/m³ (Long-term - systemic and local effects) |

PNECs

| Product/ingredient name | |
|---|---|
| xylene (mixture of isomers) | |
| PNEC aqua | 0,327 mg/l (fresh water) |
| | 0,327 mg/l (marine water) |
| PNEC | 6,58 mg/l (STP (sewage treatment plant)) |
| | 2,31 mg/kg dw (soil) |
| PNEC sediment | 12,46 mg/kg dw (fresh water) |
| | 12,46 mg/kg dw (marine water) |

| Product/ingredient name | |
|---|---|
| ethylbenzole | |
| PNEC aqua | 0,1 mg/l (fresh water) |
| | 0,01 mg/l (marine water) |
| PNEC | 6,58 mg/l (STP (sewage treatment plant)) |
| | 2,68 mg/kg dw (soil) |
| PNEC sediment | 13,7 mg/kg dw (fresh water) |
| | 1,37 mg/kg dw (marine water) |

| Product/ingredient name | |
|---|---|
| 1-methoxy-2-propanol (PM) | |
| PNEC aqua | 10 mg/l (fresh water) |
| | 1 mg/l (marine water) |
| PNEC | 100 mg/l (STP (sewage treatment plant)) |
| | 4,59 mg/kg dw (soil) |
| PNEC sediment | 52,3 mg/kg dw (fresh water) |
| | 5,2 mg/kg dw (marine water) |

| Product/ingredient name | |
|---|---|
| 1-propoxy-2-propanol | |
| PNEC aqua | 0,1 mg/l (fresh water)<br>0,01 mg/l (marine water) |
| PNEC | 4 mg/l (STP (sewage treatment plant))<br>0,0185 mg/kg dw (soil) |
| PNEC sediment | 0,386 mg/kg dw (fresh water)<br>0,0386 mg/kg dw (marine water) |

| Product/ingredient name | |
|---|---|
| aluminium powder (coated) | |
| PNEC aqua | 0,0749 mg/l (fresh water)<br>- mg/l (marine water) |
| PNEC | 20 mg/l (STP (sewage treatment plant))<br>- mg/kg dw (soil) |
| PNEC sediment | - mg/kg dw (fresh water)<br>- mg/kg dw (marine water) |

**8.2 Exposure controls / personal protection**

Engineering measures

Refer to protective measures listed in sections 7.

**Personal protective equipment:**

**Respiratory protection**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. Be sure to use approved/ certified respirator or equivalent.

**Hand protection**

If there is a potential for product skin contact, use of gloves tested to e.g. EN 374 will provide sufficient protection. Protective gloves should in any case be tested for workplace-specific suitability (e.g. mechanical resistance, product compatibility, antistatic properties). Comply with instructions and information provided by the glove manufacturer concerning use, care and replacement of the gloves. Replace protective gloves immediately upon damage or at the first signs of wear. As far as possible, plan work procedures so that wearing gloves will not be necessary.

| | Long term exposure | Short term exposure |
|---|---|---|
| Recommended gloves should be made of | Viton® | Nitril. |
| Material thickness | >0,7 mm | >0,4 mm |
| Permeation time | >480 min | >480 min |

**Eye protection**

Safety goggles with lateral shielding (DIN EN 166)

**Body protection**

Usual working clothes for the chemical industry, suitable for the job.

**Environmental exposure controls:**
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance**
**Physical state:** Fluid **Colour:** Silver

**Odor:** Characteristic

**Odor threshold:** Not relevant for the hazard classification of the product.

**Security-relevant basic data**

| Parameter | |
|---|---|
| pH-value | Not applicable. |
| Melting point/Melting range | 0 °C (This is based on data for the following ingredient: water) |
| Boiling point/Boiling range | 100 °C (This is based on data for the following ingredient: water) |
| Flash point | >100°C |
| Flammability (solid / gas) | Not applicable. |
| Ignition temperature | ~370 ° C (lowest value of the individual components) |
| Decomposition temperature | Not determined. |
| Auto-ignition temperature | The product is not self-igniting. |
| Explosive properties | Product is not explosive. However, formation of explosive air/steam mixtures as possible. |
| Explosion limits<br>Lower<br>Upper<br>Oxidizing properties | <br>1,1 %(Vol)<br>16,9 %(Vol)<br>Not determined |
| Vapour pressure | 7 - 8 hPa (20 °C) |
| Density | ~1,26 g/cm³ (20 °C) |
| Vapor density | Not determined |
| Evaporation rate | No data available. |
| Solubility in<br>Miscibility with water | Organic solvents (see point 3)<br>Fully miscible. |
| Partition coefficient: (n-octanol/water) | Testing not relevant or not possible due to nature of the product. |
| Viscosity (expiry time after DIN 53211)<br>Dynamic:<br>Kinematic: | <br><br>~70 - 75 s DIN 4mm (20°C) |
| Solvent separation test | < 3% (20°C) |

### 9.2. Other information

No additional information.

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
General information: No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability**
General information: The product is stable.

**10.3 Possibility of hazardous reactions**
General information: Rubber and other synthetic material can be affected.

**10.4 Conditions to avoid**
General information: The product is flammable. Keep away from excessive heat, sparks or open fire.

**10.5 Incompatible materials**
General information: oxidising agents, acids

**10.6 Hazardous decomposition products**
General information: Thermal disintegration depends to a great extent on the external conditions. A complex mixture of solids, liquids and gases forms in the air, including among other substances carbon dioxide, carbon monoxide and other organic compounds, when this material is burnt or is thermally or oxidatively degraded.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| xylene (mixture of isomers) | LC50 Inhalation Gas | Rat | 5000 ppm | 4 hours |
| | LC50 Inhalation Vapour | Rat | 6350 ppm | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat | 17,2 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| 1-methoxy-2-propanol (PM) | LC50 Inhalation Vapour | Rat | 10000 ppm | 5 hours |
| | LD50 Dermal | Rabbit | 13 g/kg | - |
| | LD50 Oral | Rat | 6600 mg/kg | - |
| 1-propoxy-2-propanol | LC50 Inhalation Vapour | Rat | 8,34 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | > 2 000 mg/kg | - |
| | LD50 Oral | Rat | > 2 000 mg/kg | - |
| aluminium powder (coated) | LC50 Inhalation Vapour | Rat | > 0,888 mg/l | 4 hours |

**Corrosion/Irritation**

| Product/ingredient name | Result | Species | Score | Exposure |
|---|---|---|---|---|
| xylene (mixture of isomers) | Eyes - Severe irritant | Rabbit | - | 24 hours 5 milligrams |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 milligrams |
| ethylbenzene | Skin - Mild irritant | Rabbit | - | 24 hours 15 milligrams |
| | Respiratory - Mild irritant | Rabbit | - | - |
| | Eyes - Mild irritant | Rabbit | - | - |
| 1-methoxy-2-propanol (PM) | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams |

**Sensitiser**
Skin**:** No evidence of sensitizing effects.
Respiratory: May cause respiratory irritation.

**Mutagenicity**
Remarks: No evidence of mutagenic effects.

**Carcinogenicity**
Remarks: No evidence of carcinogenic effects.

**Reproductive toxicity**
Remarks: No evidence that the substance is toxic for reproduction.

**Teratogenicity**
Remarks: No evidence that the substance may cause birth defects.

**Specific target organ toxicity (single exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| xylene (mixture of isomers) | Category 3 | Not applicable. | Respiratory tract Irritation |
| 1-methoxy-2-propanol (PM) | Category 3 | Not applicable. | Narcotic effects |

**Specific target organ toxicity (repeated exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| xylene (mixture of isomers) | Category 2 | Not determined | Hearing organs |
| ethylbenzene | Category 2 | Not determined | Hearing organs |

**Aspiration hazard**

| Product/ingredient name | Result |
|---|---|
| xylene (mixture of isomers) | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure**
Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential chronic health effects**
Remarks: Not available.

**11.2 Endocrine disrupting properties**
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**11.3 Other hazards**
The product is flammable. Keep away from excessive heat, sparks or open fire. In use, may form flammable/explosive vapourair mixture. Electrostatic charges may be generated during pumping, release of which may cause a fire. The vapour/gas is heavier than air and will spread along the ground. Vapour may travel a considerable distance to source of ignition and flash back. Aspiration hazard if swallowed. Can enter lungs and cause damage.

## SECTION 12: Ecological information

**12.1 Toxicity**

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| xylene (mixture of isomers) | Acute EC50 3,82 mg/l | Daphnie - Daphnia magna | 48 hours |
| | Acute EC50 4,7 mg/l | Algae- Pseudokirchneriella subcapitata | 72 hours |
| | Acute LC50 7,6 mg/l | Fish - Oncorhynchus mykiss | 96 hours |
| ethylbenzene | Acute EC50 2,4 mg/l | Daphnie - Daphnia magna | 48 hours |
| | Acute EC50 4,6 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute LC50 7 mg/l | Fish - Oncorhynchus mykiss | 96 hours |
| 1-methoxy-2-propanol (PM) | Acute EC50 23300 mg/l | Daphnie - Daphnia magna | 48 hours |
| | Acute EC50 1000 mg/l | Algae - Pseudokirchneriella subcapitata | 168 hours |
| | Acute LC50 350 mg/l | Fish - Leuciscus idus | 96 hours |

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| 1-propoxy-2-propanol | Acute EC50 >100 mg/l<br>Acute EC50 1466 mg/l<br><br>Acute LC50 >100 mg/l | Daphnie - Daphnia magna<br>Algae - Scenedesmus capricornutum<br>Fish - Oncorhynchus mykiss | 48 hours<br>72 hours<br><br>96 hours |
| aluminium powder (coated) | Acute EC50 - (not ecotoxic acc. Ann. VI, Dir. (EC) 1272/20) | - | - |

**12.2 Persistence and degradability**

| Product/ingredient name | Result |
|---|---|
| xylene (mixture of isomers) | 87,8 % - 28 days |
| ethylbenzene | >70 % - 28 days |
| 1-methoxy-2-propanol (PM) | 96 % - 28 days |
| 1-propoxy-2-propanol | 91,5 % - 28 days |

Remarks: The mixture is, according to the desired resistance, not readily biodegradable.

**12.3 Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF | Potential |
|---|---|---|---|
| xylene (mixture of isomers) | 3.16 | 8.1 - 25.9 | low |
| ethylbenzene | 3.6 | - | low |
| 1-methoxy-2-propanol (PM) | <1 | - | low |
| 1-propoxy-2-propanol | <3 | <100 | low |

**12.4 Mobility in soil**

Soil/water partition coefficient (KOC): Not available.

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects**

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

The generation of waste should be avoided or minimised wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

European waste catalogue no. (EWC) is given below.
European waste catalogue (EWC): 08 01 11*

**Packaging**

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

## SECTION 14: Transport information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

| | 14.1 UN no. | 14.2 Proper shipping name | 14.3 Transport hazard class(es) | 14.4 PG* | 14.5 Env* | Additional information |
|---|---|---|---|---|---|---|
| **ADR/RID Class** | Not regulated. | | - | - | No. | - |
| **IMDG Class** | Not regulated. | | - | - | No. | - |
| **IATA Class** | Not regulated. | | - | - | No. | - |

PG*.: Packing group Env.* : Environmental hazards

**14.6 Special precautions for user**

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

## SECTION 15: Regulatory information

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

**EU Regulation**

Regulation (EG) Nr. 1907/2006 (REACH)
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), with supplements.

Regulation (EG) Nr. 1272/2008 (CLP)
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures (CLP), with supplements.

EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorisation
Substances of very high concern

Substances mentioned on the so-called "candidate list of substances of very high concern (SVHC) for authorisation" published by the EChA are not intentionally added to this product. Therefore it is not expected, that these substances are present in amounts of ≥ 0,1% in this product.

**National legislation (Germany)**

**Water hazard class:** WGK 2 (Assessment by list): hazardous for water.

**VOC:** 98 g/l DIN ISO 11890 (Council Directive 1999/13/EC).

**Information about limitation of use:** Employment restrictions concerning young persons must be observed.

**15.2 Chemical Safety Assessment**

This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

**Abbreviations and acronyms:**

| Abbr. | Descriptions of used abbreviations |
|---|---|
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| BCF | bioconcentration factor |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| CMR | Carcinogenic, Mutagenic or toxic for Reproduction |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No-Effect Level |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods Code |
| IOELV | indicative occupational exposure limit value |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STEL | short-term exposure limit |
| TWA | time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | very Persistent and very Bioaccumulative |

Full text of classifications [CLP/GHS]:
Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4
Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4
Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2
Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1
Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 3, H225 FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1
STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2
STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification | Justification |
|---|---|
| - | - |

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II


Product name: Speziallackfarbe, heat resistant up to 400 ° C
Date of printing: 18.10.2023

**Notice to reader**

*The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical preformance or suitability for particular applications. It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.*