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## Version number 1

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SECTION 1: Identification of the substance/mixture and of the company/u	undertaking
· 1.1 Product identifier	
• <b>Trade name:</b> <u>BF 2457 BLAU</u> • Bleifreie Porzellanfarbe	
<ul> <li>Article number: BF 2457</li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.</li> </ul>	
· Application of the substance / the mixture Preparation of ceramic parts and coatings	
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Rüger &amp; Günzel GmbH</li> <li>D 63263 Neu-Isenburg - Dornhofstraße 71</li> <li>Telefon +49- 61 02 / 812940 - Telefax +49 61 02 / 8129440</li> <li>E-Mail: info@rgfarben.de</li> </ul>	www.rgfarben.de
<ul> <li>Informing department: Product safety department.</li> <li>1.4 Emergency telephone number: Mo-Fr. 7.30 - 16.00 Uhr - Tel.+49-6102/812940 // 24h-emergency phone no. +49 151 54 62 7' poison emergency call: or Beratungsstelle bei Vergiftungen II. Medizinische Klinik und Polyklinik der Universität Mainz Langenbeckstr. 1 55131 Mainz www.giftinfo.uni-mainz.de 06131 - 19240</li> </ul>	7 41

## **SECTION 2: Hazards identification**

 $\cdot$  2.1 Classification of the substance or mixture

• **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.

#### · 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
- $\cdot$  Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Chemical characterisation: Mixtures

· Description:

Bleifreie Fritte: Basis B-Al-Zn-Li-Si; (CAS-Nr.:65997-18-4). Pigment des Systems Al-Co-Zn;(Spinell) (CAS-Nr.:68186-87-8).

· Dangerous components: Void

## **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- $\cdot$  General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- · After skin contact Rinse with warm water.

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• After eye contact Rinse opened eye for several minutes under running water.

 $\cdot$  After swallowing In case of persistent symptoms consult doctor.

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

No further relevant information available.

 $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

#### · 5.1 Extinguishing media

· Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet.

Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents Water with a full water jet.

• 5.2 Special hazards arising from the substance or mixture No further relevant information available.

- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

· 6.2 Environmental precautions: Do not empty into drains.

• 6.3 Methods and material for containment and cleaning up: Collect mechanically.

· 6.4 Reference to other sections

No dangerous materials are released.

Do not handle until all safety precautions have been read and understood.

Wear suitable protective clothing and gloves.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

#### $\cdot$ 7.1 Precautions for safe handling

Take note of emission threshold.

Prevent formation of dust.

Use only in well-ventilated areas.

Handle and open container with care.

• Information about protection against explosions and fires: The product is not flammable

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

· Storage

• Requirements to be met by storerooms and containers: No special requirements.

· Information about storage in one common storage facility: Store away from foodstuffs.

- · Further information about storage conditions: None.
- · Storage class 13

 $\cdot$  7.3 Specific end use(s) No further relevant information available.

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

• Additional information about design of technical systems: No further data; see item 7.

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#### · 8.1 Control parameters

 $\cdot$  Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
- $\cdot$  Personal protective equipment
- $\cdot$  General protective and hygienic measures
- The usual precautionary measures should be adhered to general rules for handling chemicals.
- Breathing equipment: Not necessary if room is well-ventilated.
- · Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Solvent resistant gloves

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least > 480 minutes (Permeation according to EN 374).

· Eye protection: Safety glasses recommended during refilling.

9.1 Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Powder	
Colour:	According to product specification	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value at 20 °C:	7	
Change in condition		
Melting point/freezing point:	Not determined	
Initial boiling point and boiling rang	ge: Not determined	
Flash point:	Not applicable	
Inflammability (solid, gaseous)	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Self-inflammability:	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Critical values for explosion:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density at 20 °C	2.34 g/cm <sup>3</sup>	



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· Relative density	Not determined.	
· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Unsoluble	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
dynamic:	Not applicable.	
kinematic:	Not applicable.	
· 9.2 Other information	No further relevant information available.	

### **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:
- To avoid thermal decomposition do not overheat.
- No decomposition if used and stored according to specifications.
- Stable up to melting point.
- $\cdot$  10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.
- $\cdot$  **10.5 Incompatible materials:** No further relevant information available.
- $\cdot$  10.6 Hazardous decomposition products: No dangerous decomposition products known

## **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Behaviour in sewage processing plants:

The product can be mechanically separated.

Heavy metal can be dissolved by liquids containing acid or alkali.

Then elimination out of the water through chemical flocculation.

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· Additional ecological information:

· 12.5 Results of PBT and vPvB assessment

The product contains materials that are harmful to the environment.

Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even extremely small quantities leak into soil.

<ul> <li>• vPvB: Not applicable.</li> <li>• 12.6 Other adverse effects No further relevant information available.</li> </ul>
SECTION 13: Disposal considerations
<ul> <li>• 13.1 Waste treatment methods</li> <li>• Recommendation         <ul> <li>Must not be disposed of together with household garbage. Do not allow product to reach sewage system.</li> <li>After prior treatment product has to be landfilled under adherence to the regulations pertaining to the disposal of particularly hazardous waste.</li> <li>• Waste disposal key number: 55515 (Pigmente und Farbstoffe anorganisch)</li> </ul> </li> </ul>
· European waste catalogue
08 02 99 wastes not otherwise specified
<ul> <li>Uncleaned packagings:</li> <li>Recommendation: Disposal must be made according to official regulations.</li> <li>Waste disposal key number:</li> <li>18715 (Verpackungsmaterial mit schädlichen Verunreinigungen oder Restinhalten, vorwiegend anorganisch)</li> </ul>
SECTION 14: Transport information
· 14.1 UN-Number · ADR, ADN, IMDG, IATA Void

#### · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA Void · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA Void · Class · 14.4 Packing group · ADR, IMDG, IATA Void · 14.5 Environmental hazards: · Marine pollutant: no Not applicable. · 14.6 Special precautions for user · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · UN "Model Regulation": Void

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· General notes:

· PBT: Not applicable.



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### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- $\cdot$  Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- · Department issuing data specification sheet: Environment protection department.
- · Contact: Hr. Frank Bauer
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative