

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 60471 Shellac 3-Circles

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Version: 4.5

Printed: 29.11.2022

### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

*Product Name:* Shellac 3-Circles

*Article No.:* 60471

*UFI:* --

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*

*Surface finish, binding agent, glue*

*For the coating of food.*

*Food additive E904*

*Uses advised against:*

*At present we have no details for the uses advised against.*

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Kremer Pigmente GmbH & Co. KG

*Address:* Hauptstr. 41-47, 88317 Aichstetten, Germany

*Tel./Fax.:* Tel +49 7565 914480, Fax +49 7565 1606

*Internet:* [www.kremer-pigmente.com](http://www.kremer-pigmente.com)

*E-Mail:* [info@kremer-pigmente.com](mailto:info@kremer-pigmente.com)

*Importer:* --

#### 1.4. Emergency No.

*Emergency No.:* +49 7565 914480 (Mon-Fri 8:00 - 17:00)

#### 1.4.2 Poison Center:

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation  
(EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to Regulation  
(EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Hazard designation:*

*Not applicable.*

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

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### 2.3. Other Hazards

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## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:* Natural resin, animal origin, decolorized and wax-free.  
REACH Pre registration number: 05-2114511069-55-000

*Information on Components / Hazardous Ingredients:*

Shellac, natural resin	100 %	CAS-Nr: 9000-59-3 EINECS-Nr: 232-549-9 EC-Nr:
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*Additional information:*

*Shellack complies with the definition of a polymer: exempted from the mandatory REACH Registration.*

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## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

*General information:*

*Take affected persons out into the fresh air.*

*After inhalation:*

*No special measures required.*

*After skin contact:*

*Wash with soap and rinse with plenty of water.*

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes.*

*After ingestion:*

*Rinse mouth with water and drink plenty of water.  
If symptoms persist, call a physician.*

### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*No further information available.*

*Effects:*

### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*No special first-aid measures necessary.*

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## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Foam, carbon dioxide (CO<sub>2</sub>), extinguishing powder, water spray jet.*

*Unsuitable extinguishing media:*

*Water with full jet.*

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### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*No special hazards.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Wear suitable protective clothing.*

*Further information:*

*Cool exposed containers with water spray.*

*Contaminated extinguishing water and debris should be disposed of according to local regulations.*

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## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Wear protective clothing.*

*Avoid formation of dust.*

*Avoid contact with skin and eyes. Do not ingest or inhale.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soil, drains and surface waters.*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Take up mechanically and collect in suitable containers for disposal.*

### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

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## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Avoid contact with eyes and skin.*

*Provide adequate ventilation.*

*Hygienic measures:*

*Do not inhale dust. Wash hands before breaks and at the end of work.*

*Do not eat or drink during work. Do not smoke.*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a cool and well ventilated location.*

*Do not store together with food stuff and animal feed.*

*Protect product from direct sunlight.*

*Protect against humidity and water.*

*Requirements for storage areas and*

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*containers:*

*Keep container tightly closed.*

*Information on fire and explosion protection:*

*Do not store together with: foodstuffs, beverages and feed.  
Do not store together with reducing agents.*

*Storage class:*

*13; Non combustible solids (TRGS 510)*

*Further Information:*

*Shelf-life: at least 1 year when stored < 20°C and at a relative air humidity of < 50 %.*

### 7.3. Specific End Use(s)

*Further information:*

*No information available.*

## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*none known*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Provide adequate ventilation/exhaust system.*

*Personal Protection*

*General protective measures:*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

*Respiratory protection:*

*Not required.*

*Hand protection:*

*Protective gloves (EN 374)*

*Protective glove material:*

*Butyl rubber (> 480 min; 0.5 mm).  
Polyvinyl chloride (> 480 min, 0.5 mm)  
Fluoro carbon rubber - FKM (> 480 min; 0.4 mm).  
Nitrile rubber (> 480 min, 0.35 mm)*

*Eye protection:*

*Safety glasses with protective shields (EN 166).*

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*Body protection:*

*Protective clothing.*

*Environmental precautions:*

*Do not allow entering sewerage system.*

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### 9. Physical and Chemical Properties

#### 9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>solid</i>
<i>Color:</i>	<i>bright yellow</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>not available</i>
<i>Melting temperature:</i>	<i>90 - 105°C</i>
<i>Boiling temperature:</i>	<i>not available</i>
<i>Flash point:</i>	<i>&gt; 300°C</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>&gt; 300°C</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	
<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>not applicable</i>
<i>Auto-ignition temperature:</i>	<i>No information available.</i>
<i>Decomposition temperature:</i>	<i>not applicable</i>
<i>Viscosity, dynamic:</i>	<i>not applicable</i>

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### *Explosive properties:*

*Product does not present an explosion hazard.*

### *Oxidizing properties:*

*no information available*

### *Bulk density:*

*ca. 300 g/l*

## 9.2. Further Information

### *Solubility in solvents:*

### *Viscosity, kinematic:*

### *Burning class:*

### *Solvent content:*

### *Solid content:*

### *Particle size:*

### *Other information:*

*No further information.*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*Stable if used according to specifications.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Unknown.*

### 10.4. Conditions to Avoid

#### *Conditions to avoid:*

*Avoid temperatures above 60°C: causes blocking respectively sintering of the platelets.*

#### *Thermal decomposition:*

### 10.5. Incompatible Materials

*Strong oxidizing agents.*

### 10.6. Hazardous Decomposition Products

*None if stored and handled according to specifications.*

### 10.7. Further Information

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## 11. Toxicological Information

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

#### *Acute Toxicity*

*LD50, oral: > 5000 mg/kg (rat)*

*LD50, dermal: > 10000 mg/kg (rabbit)*

#### *LC50, inhalation:*

*No information available.*

#### *Primary effects*

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*Irritant effect on skin:*

*Non irritating (rabbit)*

*Irritant effect on eyes:*

*May cause a slight irritaiton of eyes.*

*Inhalation:*

*Non irritating.*

*Ingestion:*

*No information available*

*Sensitization:*

*Non sensitizing.*

*Mutagenicity:*

*No mutagenic effects known.*

*Reproductive toxicity:*

*No information available.*

*Carcinogenicity:*

*No relevant data found.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*No negative effects.*

*Aspiration hazard*

*Not applicable*

### 11. 2. Information on other Hazards

*No further information available.*

*Shellac is an approved food additive (E 904) and has been toxicologically tested accordingly for legislation.*

## 12. Ecological Information

### 12. 1. Aquatic Toxicity

*Fish toxicity:*

*No data available.*

*Daphnia toxicity:*

*EC50: > 2000 mg/l (24h, Daphnia magna)*

*Bacteria toxicity:*

*No data available.*

*Algae toxicity:*

*LC50: 340 mg/l (72h)*

### 12. 2. Persistency and Degradability

*22 % (28d); biodegradable (OECD 301D)*

### 12. 3. Bioaccumulation

*No information available.*

### 12. 4. Mobility

*No information available.*

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### 12.5. Results of PBT- und vPvP Assessment

*On the basis of available data, the product does not contain any PBT or vPvB substances in percentage greater than 0.1 %.*

### 12.6. Endocrine Disrupting Properties

*This substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) No. 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.*

### 12.7. Other Adverse Effects

*Water hazard class:*

*1 (German Regulation) (Assessment by list): slightly hazardous.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*AOX Value:*

*The product contains about < 2 % organically bound halogen.*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*In accordance with current regulations, product may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.*

*European Waste Code (EWC):*

*080112 - Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), sealants and printing inks.*

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

*Uncleaned packaging:*

*Contaminated packaging must be disposed like the substance.*

*Waste Code No.:*

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## 14. Transport Information

### 14.1. UN Number

*ADR, IMDG, IATA*

### 14.2. UN Proper Shipping Name

*ADR/RID:*

*No hazardous goods according to ADR / DOT (US) (land transportation).*

*IMDG/IATA:*

*Not hazardous goods*

### 14.3. Transport Hazard Classes

*ADR Class:*

*not applicable*

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*Hazard no.:*

*Classification code:*

*Tunnel restriction code:*

*IMDG Class (sea):*

*not applicable*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*not applicable*

*Hazard no.:*

### 14. 4. Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

### 14. 5. Environmental Hazards

*Not classified as environmentally hazardous.*

### 14. 6. Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

### 14. 7. Maritime Transport in Bulk according to IMO Instruments

*not applicable*

### 14. 8. Further Information

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## 15. Regulatory Information

### 15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

*1, slightly hazardous for water (according to the German Regulation AwSV)*

*Local regulations on chemical accidents:*

*Does not underlie the Accident Ordinance.*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Technical instructions on air quality:*

### 15. 2. Chemical Safety Assessment

*A Chemical Safety Assessment is not necessary for this product.*

*EC SVHC-List: This product does not contain a substance in the candidate list for substances of very high concern (REACH Regulation (EC) 1907/2006, Article 57)*

### 15. 3. Further Information

*Listed in the following inventories:*

*EINECS (EU), TSCA (US), AICS (AUS), DSL (CA), PICCS (PH),  
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*KECI (KR), ENCS (JP), NZIoC (NZ), IECSC (CN), NECSI (TW), CH*

*Data concerning the Directive 1999/13/EC on the limitation of emission of volatile organic compounds (VOC-RL)*

*VOC Content: 0 %*

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### 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*