

Safety Data Sheet

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



60480 Shellac Ruby

Page 1

Revised edition: 29.09.2022

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 Ruby

Article No.: 60480

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

E-Mail: 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:

next page: 2

Safety Data Sheet

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



60480 Shellac Ruby

Page 2

Revised edition: 29.09.2022

Version: 4.5

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2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

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

Information on Components / Hazardous Ingredients:

Shellac, natural resin, animal origin (decolorized and wax-free)	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.

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.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, water spray jet.

Unsuitable extinguishing media:

Water with full jet.

next page: 3

Safety Data Sheet

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



60480 Shellac Ruby

Page 3

Revised edition: 29.09.2022

Version: 4.5

Printed: 29.11.2022

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.

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.

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

next page: 4

Safety Data Sheet

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



60480 Shellac Ruby

Page 4

Revised edition: 29.09.2022

Version: 4.5

Printed: 29.11.2022

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 2 years 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).

next page: 5

Safety Data Sheet

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



60480 Shellac Ruby

Page 5

Revised edition: 29.09.2022

Version: 4.5

Printed: 29.11.2022

Body protection:

Protective clothing.

Environmental precautions:

Do not allow entering sewerage system.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>solid</i>
<i>Color:</i>	<i>ruby</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>65 - 77°C</i>
<i>Boiling temperature:</i>	<i>not available</i>
<i>Flash point:</i>	<i>> 300°C</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>> 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>

next page: 6

Safety Data Sheet

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



60480 Shellac Ruby

Page 6

Revised edition: 29.09.2022

Version: 4.5

Printed: 29.11.2022

Explosive properties:

Product does not present an explosion hazard.

Oxidizing properties:

no information available

Bulk density:

400 kg/m³

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

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

None if handled and stored according to specifications.

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

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

next page: 7

Safety Data Sheet

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



60480 Shellac Ruby

Page 7

Revised edition: 29.09.2022

Version: 4.5

Printed: 29.11.2022

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 relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No negative effects.

Aspiration hazard

No information available.

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: 500 mg/l (24h, Daphnia magna)

Bacteria toxicity:

No data available.

Algae toxicity:

LC50: > 440 mg/l (72h)

12. 2. Persistency and Degradability

34 % (28d); biodegradable (OECD 301D)

12. 3. Bioaccumulation

No information available.

12. 4. Mobility

No information available.

next page: 8

Safety Data Sheet

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



60480 Shellac Ruby

Page 8

Revised edition: 29.09.2022

Version: 4.5

Printed: 29.11.2022

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:

Product does not contain any organically bound halogens which influence the AOX value of discard water.

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.:

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

next page: 9

Safety Data Sheet

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



60480 Shellac Ruby

Page 9

Revised edition: 29.09.2022

Version: 4.5

Printed: 29.11.2022

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

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 (German Regulation)

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),
KECI (KR), ENCS (JP), NZIoC (NZ), IECSC (CN), NECSI (TW),*

next page: 10

Safety Data Sheet

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



60480 Shellac Ruby

Page 10

Revised edition: 29.09.2022

Version: 4.5

Printed: 29.11.2022

CH

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

VOC Content: < 1 %

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.