



## Product Name: Adhesive wax, red

REF: 41102, 41104

Date of print: 26.01.2017 Date of last alteration: 26.01.2017

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

#### 1.1. Product identifier

Special applications.  
Adhesive wax, red.

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

##### Use of the substance/mixture

Wax(es) for the preparation of model castings and reconstructions.

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

Manufacturer/distributor: egger Otoplastik+Labortechnik GmbH  
Street/POB-No.: Aybühlweg 59  
Postal code/city/country: 87439 Kempten/Germany  
Telephone: +49 831 58113-60  
Telefax: +49 831 58113-14  
Internet: www.egger-labor.com  
E-mail: sales@egger-labor.de

#### 1.4. Emergency telephone number: +49 89 19240

Emergency number: Munich, Germany, toxicological dep. of the II. Med. Hospital)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

#### 2.2. Label elements

##### Additional advice on labelling

The product does not require a hazard warning label in accordance with EC directives.

#### 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of different waxes with additives.  
Hazardous components: Not applicable.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General Information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).  
Remove contaminated soaked clothing immediately. Keep warm and calm injured person. Take away from danger area and lay down affected person.



## Product Name: Adhesive wax, red

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egger

### After Inhalation

When used as intended, exposure through inhalation is not to be expected.

### After contact with skin

Wash off with soap and plenty of water. Consult a doctor if skin irritation persists.

### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.

### After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Summon a doctor immediately. Do not give neutralising liquids.

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

Health injuries are not known or expected under normal use.

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

Treat symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray. Unsuitable extinguishing media. Full water jet.

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

Fire may produce: Carbon monoxide and carbon dioxide. Vapours are heavier than air and spread along ground. Flashback at a long distance is possible.

### 5.3. Advice for firefighters

Use breathing apparatus with independent air supply. Protective suit.

### Additional information

Cool containers at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

In case of vapour formation use respirator. Ensure adequate ventilation. Use personal protective clothing. Get unprotected persons to safety. Keep away from heat and sources of ignition. Avoid contact with the skin and the eyes. Do not inhale vapour/aerosol.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water. Risk of explosion.

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

Take up mechanically and collect in suitable container for disposal.

### 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).  
Information for disposal see section 13.



## Product Name: Adhesive wax, red

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Do not keep containers unlocked. Handle in accordance with the general hygienic rules. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Contaminated work clothing should not be allowed out of the workplace. Avoid formation of Aerosols.

##### Advice on protection against fire and explosion

No special protective measures against fire required.

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

##### Requirements for storage rooms and vessels

No special precautions required.

##### Advice on storage compatibility

Keep away from food, drink and animal feeding stuffs. Do not store together with oxidizing and self-igniting products. Do not store with: oxidizing substances.

##### Further information on storage conditions

Use only in well-ventilated areas. Keep containers tightly closed in a cool, well-ventilated place. Protect from heat and direct solar radiation.

#### 7.3. Specific end use(s)

Waxes for the preparation of crowns and bridges, model castings and reconstructions.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
8002-74-2	Paraffin wax, fume	-	2		TWA (8 h)	WEL
		-	6		STEL (15 min)	WEL

#### 8.2. Exposure controls



##### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over the use of personal protective equipment. Ensure adequate ventilation. Provide sufficient air exchange and/or exhaust in work rooms.

##### Protective and hygiene measures

Avoid contact with eyes and skin. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Take off immediately all contaminated clothing.

**Product Name: Adhesive wax, red**

REF: 41102, 41104

Date of print: 26.01.2017 Date of last alteration: 26.01.2017

egger

**Eye/face protection**

Tightly fitting goggles (EN 166). Eye wash bottle with pure water (EN 15154).

**Hand protection**

Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0,7 mm, permeation resistance (wear duration) > 240 minutes, i. e. protective glove <Butoject 898>. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Skin protection**

Long sleeved clothing (EN 368). Wear fire retardant protective coveralls. Take precautions against electrostatic discharges.

**Respiratory protection**

In case of vapour / mist formation use respirator. (Full mask, filter A).

**Environmental exposure controls**

Do not empty into drains explosion risk.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	solid matter	
Colour:	according to product specification	
Odour:	faint	
pH-Value:	n. a.	
Changes in the physical state		
Melting point:	n. d.	
Initial boiling point and boiling range:	n. d.	
Softening point:	n. d.	
Drop point:	70 - 110 °C	DIN 2176
Flash point:	> 140 °C	ISO 1523
Flammability Solid:	n. d.	
Explosive properties	The product is not explosive.	
Lower explosion limits:	n. d.	
Upper explosion limits:	n. d.	
Ignition temperature:	n. d.	
Auto-ignition temperature Solid:	n. d.	
Oxidizing properties:	n. d.	
Vapour pressure:	(at 20 °C) n. d.	
Density (at 20 °C):	0,9 g/cm <sup>3</sup>	DIN 53217
Water solubility:	partially miscible	
Solubility in other solvents	n. d.	
Viscosity / dynamic: (at 20 °C)	> 50 mPa·s	DIN 53019
Viscosity / kinematic:	n. d.	
Flow time:	n. d.	
Vapour density:	n. d.	
Solvent content:	0 %	



## Product Name: Adhesive wax, red

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egger

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No decomposition if stored and applied as directed. If heating up polymerisation.

#### 10.2. Chemical stability

Chemically stable.

#### 10.3. Possibility of hazardous reactions

Heating can release vapours which can be ignited.

#### 10.4. Conditions to avoid

Protect from heat and direct solar radiation.

#### 10.5. Incompatible materials

Oxidizing agents (strong).

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

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

##### Conclusion by analogy (QSAR):

LD50/oral/rat: > 2000 mg/kg

LD50/dermal/rabbit: > 2000 mg/kg

##### Irritation and corrosivity

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

##### Sensitising effects

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

##### STOT-single exposure

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

##### Severe effects after repeated or prolonged exposure

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

##### Carcinogenic/mutagenic/toxic effects for reproduction

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

##### Aspiration hazard

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



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**SECTION 12: Ecological information**

**12.1. Toxicity**

Not determined.

**12.2. Persistence and degradability**

Not determined.

**12.3. Bioaccumulative potential**

Not determined.

**12.4. Mobility in soil**

Not determined.

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

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

**12.6. Other adverse effects**

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely. Elimination essentially by adsorption to activated sludge.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

This material and its container must be disposed of as hazardous waste. If recycling is not practicable, dispose of in compliance with local regulations. The waste code number must be agreed with the disposer / manufacturer.

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Contaminated packagings are to be treated like the product itself. Recommended cleaning agent: Water with detergents.

**SECTION 14: Transport information**

**Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO); Inland waterways transport (ADN)**

**14.1. UN number:**

Not applicable. No hazardous material as defined by the transport regulations.

**14.2. UN proper shipping name:**

Not applicable. No hazardous material as defined by the transport regulations.

**14.3. Transport hazard class(es):**

Not applicable. No hazardous material as defined by the transport regulations.

**14.4. Packing group:**

Not applicable. No hazardous material as defined by the transport regulations.



## Product Name: Adhesive wax, red

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egger

### 14.5. Environmental hazards

Not applicable. No hazardous material as defined by the transport regulations.

### 14.6. Special precautions for user

Not applicable. No hazardous material as defined by the transport regulations.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable. No hazardous material as defined by the transport regulations.

## SECTION 15: Regulatory information

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

#### EU regulatory information

2004/42/EC (VOC): 0 %

#### Additional information

The product is labeled in accordance with Regulation (EC) no. 1272/2008 (GHS).

#### National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration



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**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n. a. = not applicable; n. d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)