



# Safety Data Sheet

according to 29 CFR 1910.1200(g)

**Hardening Bath 1719 2000**

Revision date: 22.05.2018

Product code: 17192000\_USA

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## 1. Identification

### Product identifier

Hardening Bath 1719 2000

### Recommended use of the chemical and restrictions on use

#### Use of the substance/mixture

Self-hardening plastic solution for plaster models, dies etc.

#### Uses advised against

No information available.

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

#### Manufacturer

Company name:	Renfert GmbH	
Street:	Untere Giesswiesen 2	
Place:	D-78247 Hilzingen	
Telephone:	+49 7731 8208-0	Telefax: +49 7731 8208-70
e-mail:	info@renfert.com	
Contact person:	Frau Andris	Telephone: +49 7731 8208-927
e-mail:	silke.andris@renfert.com	
Internet:	www.renfer.com	

#### Supplier

Company name:	Renfert USA	
Street:	3718 Illinois Avenue	
Place:	USA-60174 St. Charles IL	
Telephone:	(001) 800336-7422	
e-mail:	Bob@RenfertUSA.com	
Contact person:	Bob Hurl	Telephone: +1 (630) 5497380
e-mail:	Bob@RenfertUSA.com	
Internet:	www.renfer.com	

### Emergency phone number:

USA: 800-222-1222 (National Poison Control number) | CA: British Columbia: 800-567-8911 or 604-682-5050 Alberta: 1-800-332-1414 or 944-1414 Saskatchewan: 1-866-454-1212 Manitoba: 1-855-776-4766 Ontario: 1-800-268-9017 Quebec: 1-800-463-5060 New Brunswick: 911 New Foundland: 1-866-727-1110 Northwest Territories: 1-800-332-1414 Nova Scotia: 1-800-565-8161

## 2. Hazard(s) identification

### Classification of the chemical

#### 29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 2  
Serious eye damage/eye irritation: Eye Irrit. 2A  
Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)

### Label elements

#### 29 CFR Part 1910.1200

Signal word: Danger

Pictograms:



#### Hazard statements

Highly flammable liquid and vapor  
Causes serious eye irritation  
May cause drowsiness or dizziness

#### Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wear protective gloves and eye/face protection.  
If eye irritation persists: Get medical advice/attention.  
Store in a well-ventilated place. Keep cool.

### Hazards not otherwise classified

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 3. Composition/information on ingredients



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## Mixtures

### Chemical characterization

Surface hardener (resin solution)

### Hazardous components

CAS No	Components	Quantity
67-64-1	acetone	70 - 90 %

## 4. First-aid measures

### Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.

#### After inhalation

Provide fresh air.

#### After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

#### After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

The following symptoms may occur:

Vapors may cause drowsiness and dizziness. Process vapors can irritate airways, skin and eyes. Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam, Water spray jet

#### Unsuitable extinguishing media

Full water jet

### Specific hazards arising from the chemical

Vapors may form explosive mixtures with air.

### Special protective equipment and precautions for fire-fighters

In case of fire and/or explosion do not breathe fumes.

In case of fire: Wear self-contained breathing apparatus.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

Use personal protection equipment.

Remove all sources of ignition.

### Environmental precautions

Do not allow to enter into surface water or drains.

### Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal.

### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

Use only in well-ventilated areas.

Avoid contact with eyes and skin.

When using do not eat, drink or smoke.

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**Advice on protection against fire and explosion**

Vapors may form explosive mixtures with air. Keep away from sources of ignition - No smoking.

**Further information on handling**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

Take precautionary measures against static discharges.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

**8. Exposure controls/personal protection****Control parameters****Exposure limits**

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
67-64-1	Acetone	1000	2400		TWA (8 h)	PEL
		250	590		TWA (8 h)	REL

**Exposure controls****Appropriate engineering controls**

Safe handling: see section 7

**Protective and hygiene measures**

Do not breathe vapor.

Avoid contact with skin, eyes and clothes.

Wash hands before breaks and after work.

Keep away from food, drink and animal feedingstuffs.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material: 0,5 mm

Breakthrough time: &gt;= 240 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

**Respiratory protection**

Use only in well-ventilated areas.

Usually no personal respirative protection necessary.

Respiratory protection necessary at: insufficient ventilation

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: Liquid  
 Color: colorless  
 Odor: characteristic

**Test method**

pH-Value: not applicable

**Changes in the physical state**

Melting point/freezing point: not determined

Initial boiling point and boiling range: 54 °C

Flash point: - 16 °C DIN 51755 (cc)

**Explosive properties**

Vapors may form explosive mixtures with air.

Lower explosion limits: 2,5 \* vol. %

Upper explosion limits: 13,0 \* vol. %

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Ignition temperature:	535 °C	Literaturwert
Decomposition temperature:	not determined	
Vapor pressure: (at 20 °C)	240 * hPa	
Density (at 20 °C):	0,84 - 0,86 g/cm <sup>3</sup>	
Water solubility:	miscible	
Partition coefficient:	log Pow: - 0,24 *	
Viscosity / dynamic:	not determined	
Viscosity / kinematic:	not determined	
Evaporation rate:	not determined	

#### Other information

\* Data apply to the main component.

### 10. Stability and reactivity

#### Reactivity

Vapors may form explosive mixtures with air.

#### Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

#### Possibility of hazardous reactions

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. May form explosive peroxides.

#### Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Incompatible materials

Violent reaction with: Oxidising agent, strong

#### Hazardous decomposition products

No known hazardous decomposition products.

### 11. Toxicological information

#### Information on toxicological effects

##### **Acute toxicity**

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

CAS No	Components					
	Exposure route	Dose	Species	Source	Method	
67-64-1	acetone					
	oral	LD50 mg/kg	5800	Rat	RTECS	
	dermal	LD50 mg/kg	20000	Rabbit	IUCLID	
	inhalative (4 h) vapour	LC50	76 mg/l	Rat		

##### **Irritation and corrosivity**

Causes serious eye irritation

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

##### **Sensitizing effects**

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.

##### **Specific target organ toxicity (STOT) - single exposure**

May cause drowsiness or dizziness (acetone)

##### **Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

##### **Aspiration hazard**

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

#### **Further information**

The product has not been tested. The statement is derived from the properties of the single components.

### 12. Ecological information

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**Ecotoxicity**

There are no data available on the mixture itself.

**Persistence and degradability**

There are no data available on the mixture itself.

**Bioaccumulative potential**

No indication of bioaccumulation potential.

**Mobility in soil**

There are no data available on the mixture itself.

**Other adverse effects**

No information available.

**Further information**

The product has not been tested. The statement is derived from the properties of the single components.

Do not allow uncontrolled discharge of product into the environment.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation.

**14. Transport information****US DOT 49 CFR 172.101**

<b><u>UN/ID number:</u></b>	UN 1866
<b><u>Proper shipping name:</u></b>	resin solution
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3

**Marine transport (IMDG)**

<b><u>UN number:</u></b>	UN 1866
<b><u>UN proper shipping name:</u></b>	RESIN SOLUTION flammable
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II
Marine pollutant:	no

**Air transport (ICAO-TI/IATA-DGR)**

<b><u>UN number:</u></b>	UN 1866
<b><u>UN proper shipping name:</u></b>	RESIN SOLUTION flammable
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**Special precautions for user**

Further information: see section 6, 7, 8

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 304 CERCLA:

Acetone (67-64-1): Reportable quantity = 5,000 (2270) lbs. (kg)

SARA Section 311/312 Hazards:

Acetone (67-64-1): Fire hazard, Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information**

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**Hazardous Materials Information Label (HMIS)**

Health:	2
Flammability:	3
Physical Hazard:	1
Personal Protection:	B
Revision date:	22.05.2018
Revision No:	1,1

**Changes**

Abs. 4, 8, 14, 16 \* Data changed compared with the previous version

**Abbreviations and acronyms**

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LD50: lethal dose, 50%

LC50: lethal concentration, 50%

EC50: half maximal effective concentration

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Restricted to professional users.

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