



# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## Hardening Bath 1719 2000

Revision date: 04/22/2022

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	
e-mail:	silke.andris@renfert.com	
Internet:	www.renfert.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:	Charlie Hagy	Telephone: +1 (630) 5497380
e-mail:	Charlie@RenfertUSA.com	
Internet:	www.renfert.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 container tightly closed.

#### 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**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**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 1 glass 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**

Do not inhale explosion and combustion gases.

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

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

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****Other information**

Absorb with liquid-binding material (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.

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Avoid contact with eyes and skin.  
Do not eat, drink or smoke when using this product.

### Advice on protection against fire and explosion

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

### Advice on general occupational hygiene

Avoid breathing vapours.  
Avoid contact with skin, eyes and clothes.  
Wash hands before breaks and after work.  
Keep away from food, drink and animal feedingstuffs.

### 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

#### Individual protection measures, such as personal protective equipment

##### 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: >= 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

#### Changes in the physical state

Melting point/freezing point: not determined

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Boiling point or initial boiling point and boiling range:	54 °C
Flash point:	- 16 °C DIN 51755 (cc)
<b>Explosive properties</b>	
not explosive.	
Vapors may form explosive mixtures with air.	
Lower explosion limits:	2,5 * vol. %
Upper explosion limits:	13,0 * vol. %
Auto-ignition temperature:	535 °C Literaturwert
Decomposition temperature:	not determined
pH-Value:	not applicable
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Water solubility:	miscible
Partition coefficient n-octanol/water:	log Pow: - 0,24 *
Vapor pressure:	240 * hPa
(at 20 °C)	
Density (at 20 °C):	0,84 - 0,86 g/cm <sup>3</sup>

**Other information****Other safety characteristics**

Evaporation rate: not determined

**Further Information**

\* Data apply to the main component.

**10. Stability and reactivity****Reactivity**

Vapors may form explosive mixtures with air.

**Chemical stability**

The product 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: Oxidizing 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.

**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.

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**Information on other hazards****Endocrine disrupting properties**

No information available.

**Further information**

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

**12. Ecological information****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.

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**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****Disposal recommendations**

Dispose of waste according to applicable legislation.

**14. Transport information****U.S. DOT 49 CFR 172.101****UN number or ID number:**

UN 1866

**Proper shipping name:**

resin solution

**Transport hazard class(es):**

3

**Packing group:**

II

Hazard label:

3

**Marine transport (IMDG)****UN number or ID number:**

UN 1866

**UN proper shipping name:**

RESIN SOLUTION flammable

**Transport hazard class(es):**

3

**Packing group:**

II

Hazard label:

3



Marine pollutant:

no

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

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

**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 can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

REGULATION (EC) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on substances that deplete the ozone layer: not applicable

REGULATION (EU) 2019/1021 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on persistent organic pollutants

: not applicable

REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the export and import of hazardous chemicals: not applicable

**16. Other information****Hazardous Materials Information Label (HMIS)**

Health:	2
Flammability:	3
Physical Hazard:	1
Personal Protection:	B

**Changes**

Revision date: 04/22/2022

Revision No: 1,2

Abs. 8, 11, 12, 14, 15, 16 \* Data changed compared with the previous version.

**Abbreviations and acronyms**

PBT: persistent and bioaccumulative and toxic

vPvB: very persistent, very bioaccumulative

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

ATE: Acute Toxicity Estimate

LD50: lethal dose, 50%

LC50: lethal concentration, 50%

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

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MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
VOC: volatile organic compound(s)

**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.)*