

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Hardening Bath 1719 2000

Revision date: 23.11.2020

Product code: 1719_NZL_IV

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Hardening Bath 1719 2000****1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

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

Uses advised against

No information available.

1.3. 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 | |
| Internet: | www.renfert.com | |

Supplier

| | | |
|---------------|---------------------------|-------------------------|
| Company name: | Ivoclar Vivadent Ltd | |
| | New Zealand | |
| Street: | 12 Omega St | |
| Place: | GB Rosedale, Auckland | |
| Telephone: | +64 9 914 9999 | Telefax: +64 9 914 9990 |
| Internet: | www.ivoclarvivadent.co.nz | |

1.4. Emergency telephone number: 0800 764 766 (National Poison Centre)
Poisons Hotline (24 hours / 7 days)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

acetone

Signal word: Danger**Pictograms:**

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Hazard statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves and eye/face protection.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Surface hardener (resin solution)

Hazardous components

| CAS No | Chemical name | | | Quantity |
|---------|--|--------------|------------------|----------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 67-64-1 | acetone | | | > 70 % |
| | 200-662-2 | 606-001-00-8 | 01-2119471330-49 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066 | | | |

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

After inhalation

IF INHALED: Remove person to fresh air and keep 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 plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

The following symptoms may occur:

Vapours may cause drowsiness and dizziness. Processing vapours can irritate the respiratory tracts, skin and eyes. Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Extinguishing powder, Carbon dioxide (CO₂), alcohol resistant foam, Water spray jet**Unsuitable extinguishing media**

Full water jet

5.2. Special hazards arising from the substance or mixture

Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

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

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

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation.

Use personal protection equipment.

Remove all sources of ignition.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. 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.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. 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.

Advice on protection against fire and explosion

Vapours can 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 .

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

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

7.3. Specific end use(s)Please refer to our internet website for more information: www.renfert.com**SECTION 8: Exposure controls/personal protection**

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8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|-----------|------|-------------------|-----------|---------------|--------|
| 67-64-1 | Acetone | 500 | 1210 | | TWA (8 h) | WEL |
| | | 1500 | 3620 | | STEL (15 min) | WEL |

8.2. Exposure controls

Appropriate engineering controls

Safe handling: see section 7

Protective and hygiene measures

Do not breathe vapour.
 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: >= 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
 Colour: colourless
 Odour: characteristic

Test method

pH-Value: not applicable

Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: 54 °C

Flash point: - 16 °C DIN 51755 (cc)

Flammability

Solid: not applicable

Gas: not applicable

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Explosive properties

not explosive.

Vapours can form explosive mixtures with air.

| | |
|-------------------------|----------------------|
| Lower explosion limits: | 2,5 * vol. % |
| Upper explosion limits: | 13,0 * vol. % |
| Ignition temperature: | 535 °C Literaturwert |

Auto-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Vapour pressure:
(at 20 °C) 240 * hPa

Density (at 20 °C): 0,84 - 0,86 g/cm³

Water solubility: miscible

Partition coefficient: log Pow: - 0,24 *

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Evaporation rate: not determined

Solvent content: > 70 %

9.2. Other information

* Data apply to the main component.

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours can form explosive mixtures with air.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

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

10.5. Incompatible materials

Violent reaction with: Oxidising agent, 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.

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| CAS No | Chemical name | | | | |
|---------|-------------------------|--------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 67-64-1 | acetone | | | | |
| | inhalation (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.

Sensitising 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.

STOT-single exposure

May cause drowsiness or dizziness. (acetone)

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

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.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|---------------|---------|
| 67-64-1 | acetone | -0,24 |

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

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

12.6. 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

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SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number: UN 1866
14.2. UN proper shipping name: HARZLÖSUNG, entzündbar
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3

**Marine transport (IMDG)**

14.1. UN number: UN 1866
14.2. UN proper shipping name: RESIN SOLUTION flammable
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Marine pollutant: no

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1866
14.2. UN proper shipping name: RESIN SOLUTION flammable
14.3. Transport hazard class(es): 3
14.4. Packing group: II

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Hazard label:

3



14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Further information: see section 6, 7, 8

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

not applicable

SECTION 15: Regulatory information

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

Classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC) approved criteria for the classifying hazardous substances [NOHSC: 1008] 3rd edition.

Standard for the Uniform Scheduling of Medicines and Poisons.

Carcinogen classification under WHS Regulation 2011, Schedule 10.

Notification status in accordance with section 3 and current national legislation.

HSNO Approval: HSR006435

EPA NZ Classes of hazardous properties:

Classification 3.1B Flammable liquid - very high hazard

Classification 6.3B Substances that are mildly irritating to the skin

Classification 6.4A Substances that are irritating to the eye

SECTION 16: Other information

Abbreviations and acronyms

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

VOC: volatile organic compound(s)

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|--------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Eye Irrit. 2; H319 | Calculation method |
| STOT SE 3; H336 | Calculation method |

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

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Further Information

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.

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