

**Trade name: HARLEQUIN CONFIDANCE**
**MANUFACTURER / SUPPLIER**

BRITISH HARLEQUIN PLC  
 FESTIVAL HOUSE  
 TUNBRIDGE WELLS  
 KENT, TN2 3EF  
 · ENGLAND  
 TEL: 01892 514 888  
 enquiries@harlequinfloors.com

- 1.4 Emergency telephone number: 0845 46 47 NHS Direct in case of medical emergency

**SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008  
The product is not classified according to CLP.
- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 None
- Hazard pictograms None
- Signal word None
- Hazard statements None
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients**

- 3.2 Chemical characterisation: Mixtures
- Description:

- Components (CAS No. and EINECS No.):

CAS: 7631-86-9 EINECS: 231-545-4 Reg.nr.: 01-2119379499-16-XXXX	amorphous silicon dioxide, chemically prepared	25-50%
CAS: 7732-18-5 EINECS: 231-791-2	water, distilled, or of similar purity	50-75%

- Dangerous components:

CAS: 68460-10-6 EC number: 614-521-1 Reg.nr.: 02-2119884150-42-0000	bis(polyoxyethylene)2-ethylhexyl phosphate ⚠ Eye Irrit. 2, H319	≤ 2.5%
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- Additional information: For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- General information:  
Immediately remove any clothing soiled by the product.  
Take note of the following instructions:
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:  
Immediately rinse with water.  
Generally the product does not irritate the skin.  
Remove contaminated clothing immediately.

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- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
The product is not flammable.  
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear personal protective equipment.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Avoid formation of respirable particles.
- **Information about fire - and explosion protection:** The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Colloidal silica should be stored above 2 °C. Freezing temperatures can cause irreversible precipitation of the silica, therefore the product should be located in heated buildings. Avoid routine storage temperatures above 43 °C.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Protect from frost.
- **7.3 Specific end use(s)** No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**

**7631-86-9 amorphous silicon dioxide, chemically prepared**

Inhalative	DNEL(acute-local)	4 mg/m <sup>3</sup> (Worker) with reference to the German OEL of 4 mg/m <sup>3</sup> for synthetic amorphous silica.
	DNEL(long-local)	4 mg/m <sup>3</sup> (Worker) with reference to the German OEL of 4 mg/m <sup>3</sup> for synthetic amorphous silica.

· **Additional information:** Valid lists at time of creation were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

The usual precautionary measures are to be adhered to when handling chemicals.

Do not breathe dust or spray mist.

Do not eat, drink, smoke or sniff while working.

· **Respiratory protection:**

If the WEL value is exceeded.

Filter P2

· **Protection of hands:**



Protective gloves.

Check the condition of the gloves prior to each use.

Check the permeability prior to each anew use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Use gloves of stable material (e.g. Nitrile) - if necessary tri-coted to improve the wearability.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

· **Material of gloves**

EN 388: Minimum requirements for efficiency level 1 for all groups.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.35$  mm

· **Penetration time of glove material**

EN 420: Minimum requirements for efficiency level 1 for all groups.

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

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The exact break through time has to be obtained from the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Butyl rubber, BR  
 Nitrile rubber, NBR

- **For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber, BR  
 Nitrile rubber, NBR

- **Not suitable are gloves made of the following materials:**

Leather gloves  
 cloth gloves

- **Eye protection:**



Safety glasses.

- **Body protection:** Protective work clothing.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Liquid  
**Colour:** Cloudy

- **Odour:** Odourless
- **Odour threshold:** Not applicable.
- **pH-value at 25 °C:** 9.2-9.9

- **Change in condition**

**Melting point/freezing point:** 0 °C  
 (water)

**Initial boiling point and boiling range:** 100 °C  
 (water)

- **Flash point:** Not determined.
- **Flammability (solid, gas):** Product is not flammable.
- **Ignition temperature:** Not applicable.
- **Decomposition temperature:** Not applicable.
- **Auto-ignition temperature:** Product is not self-igniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits:**

**Lower:** Not determined.  
**Upper:** Not determined.

- **Vapour pressure at 25 °C:** 23 hPa  
 (water)

- **Density at 20 °C:** 1.1 - 1.3 g/cm<sup>3</sup>
- **Vapour density:** Not determined.

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|--|--|
| · <b>Evaporation rate</b>                        | Not determined.                            |
| · <b>Solubility in / Miscibility with water:</b> | Fully miscible.                            |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| · <b>Viscosity:</b>                              |  |
| <b>Dynamic at 25 °C:</b>                         | max. 45 mPas                               |
| · <b>9.2 Other information</b>                   | No further relevant information available. |

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **Information on the likely routes of exposure**
- **Delayed and immediate effects and chronic effects from short or long term exposure**
- **11.1 Information on toxicological effects**

- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

### 7631-86-9 amorphous silicon dioxide, chemically prepared

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC0	>140->2,000 mg/m <sup>3</sup> /4h (rat) (OCED 403) Maximum attainable concentration, mortality does not appear.

- **Primary irritant effect:**

- **Skin corrosion/irritation**

### 7631-86-9 amorphous silicon dioxide, chemically prepared

Skin	IS	0 (rabbit) (OECD 404) not irritating
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Based on available data, the classification criteria are not met.

- **Serious eye damage/irritation**

### 7631-86-9 amorphous silicon dioxide, chemically prepared

Eye	IS	0 (rabbit) (OECD 405) not irritating
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Based on available data, the classification criteria are not met.

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Respiratory sensitisation** No further relevant information available.
- **Skin sensitisation** No further relevant information available.

- **Repeated dose toxicity**

### 7631-86-9 amorphous silicon dioxide, chemically prepared

Oral	NOAEL (90 d)	9,000 mg/kg bw/day (rat) (OECD 408)
Inhalative	NOAEC (90 d)	1 mg/m <sup>3</sup> (rat) (OECD 413)

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Carcinogenicity** No further relevant information available.

- **Mutagenicity**

**7631-86-9 amorphous silicon dioxide, chemically prepared**

AMES Test	>5 mg/plate (in-vitro) (OECD 471) negative with and without metabolic activation
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- **Reproductive toxicity**

**7631-86-9 amorphous silicon dioxide, chemically prepared**

Oral	NOAEL (maternal toxicity)	1,350 mg/kg bw/day (rat) (OECD 414)
	NOAEL (teratogenicity)	1,350 mg/kg bw/day (rat) (OECD 414)

- **Specific target organ toxicity (single exposure)** No further relevant information available.
- **Specific target organ toxicity (repeated exposure)** No further relevant information available.
- **Aspiration hazard** No further relevant information available.

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

- **Fish toxicity**

**7631-86-9 amorphous silicon dioxide, chemically prepared**

LC0 (96 h) (static)	10,000 mg/l (zebra fish) (OECD 203)
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- **Water flea toxicity**

**7631-86-9 amorphous silicon dioxide, chemically prepared**

EC50 (24 h)	>1,000 mg/l (Daphnia magna) (OECD 202)
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- **Algae toxicity**

**7631-86-9 amorphous silicon dioxide, chemically prepared**

EC50 (72 h)	>10,000 mg/l (Scenedesmus subspicatus) (OECD 201) comparable substance
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- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** Amorphous silica dioxide is chemically and biologically inert.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation:** Disposal must be made according to official regulations.

- **Waste disposal key:**

The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by the waste producer.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

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| · <b>14.1 UN-Number</b>  |  |
| · <b>ADR, ADN, IMDG, IATA</b>  | None   |
| · <b>14.2 UN proper shipping name</b>  |  |
| · <b>ADR, ADN, IMDG, IATA</b>  | None   |
| · <b>14.3 Transport hazard class(es)</b>   |  |
| · <b>ADR, ADN, IMDG, IATA</b>  |  |
| · <b>Class</b>   | None   |
| · <b>14.4 Packing group</b>  |  |
| · <b>ADR, IMDG, IATA</b>   | None   |
| · <b>14.5 Environmental hazards:</b>   | Not applicable.                                      |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** None
- **Hazard pictograms** None
- **Signal word** None
- **Hazard statements** None
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations:**
- **Waterhazard class:** WGK nwg (AwSV of 18.04.2017): not hazardous to waters.
- **Registered in the international inventory lists:**
  - TSCA (USA)
  - DSL (Canada)
  - AICS (Australia)
  - MITI (Japan)
  - EINECS/REACH (Europe)
  - KECI (Korea)
  - PICCS (Philippines)
  - IECSC (China)
  - NZIoC (New Zealand)