

**Material Safety Data Sheet**  
According to 91/155/EEC, 93/112/EC, 2001/58/EC

Printing date 17.09.2009

Reviewed on 22.07.2005

**1 Product and company identification:**

- **Brandname:** BRILLANT KRONLEUCHTER REINIGER
- **Application of the product:** Chandelier cleaner
- **Manufacturer/Supplier:**  
HBS Homecare-Bestell-Service  
Noller Weg 36  
D-53562  
St. Katharinen  
Tel 0 26 44-95050  
Fax 0 26 44-950550  
eMail Info@HBS-Team.de  
www.Brillant-Schmuckpflege.de

**2 Composition / Information on ingredients:**

- **Chemical characterization**
- **Description:** Mixture in water of non-dangerous ingredients and the substances listed below.

· **Hazardous ingredients:**

CAS: 67-63-0	propan-2-ol	Xi, F; R 11-36-67	< 5%
EINECS: 200-661-7			

- **Additional information:** The full text of the relevant risk phrases is given in section 16.

**3 Hazards identification**

- **Hazards for man and the environment:**  
R 10 Flammable.
- **Classification system**  
The classification complies with current EC regulations on dangerous substances and preparations.

**4 First aid measures**

- **General information** No special measures required.
- **Inhalation** Remove from source of exposure. Obtain medical attention if symptoms develop.
- **Skin contact** No special measures required.
- **Eye contact** Wash immediately with copious amounts of water.
- **Ingestion**  
Rinse out mouth and then drink one or two glasses of water (or milk).  
In case of persistent symptoms obtain medical attention.

**5 Fire fighting measures**

- **Suitable extinguishing media**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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· **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Protection of personnel:** Wear suitable protective clothing, gloves and eye/face protection.
- **Environmental precautions:** Dilute with plenty of water.
- **Method of disposal:**  
Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).  
Dispose of the collected material according to the regulations.

### 7 Handling and storage

- **Handling (see also sections 8 and 15)**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage**
- **Requirements for storage rooms and containers:** According to local legislation.
- **Storage in one common storage facility:** According to local legislation.
- **Further information about storage conditions:** Keep container tightly sealed.

### 8 Exposure controls and personal protection

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

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

64-17-5 ethanol (15-30%)

OEL 1900 mg/m<sup>3</sup>, 1000 ml/m<sup>3</sup>

67-56-1 methanol (< 5%)

OEL Short-term value: 310 mg/m<sup>3</sup>, 250 ml/m<sup>3</sup>

Long-term value: 260 mg/m<sup>3</sup>, 200 ml/m<sup>3</sup>

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

Do not inhale gases / fumes / aerosols.

Use only in well-ventilated areas.

· **Breathing equipment:**

Personal protection is not normally required. However, inhalation of dust, vapour or aerosol should be avoided.

· **Protection of hands:** In normal use hand protection is not required.

· **Eye protection:**

Safety glasses are not normally required. However, their use is recommended in those cases where handling the undiluted product involves a risk of splashing.

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**9 Physical and chemical properties:**· **General Information**

**Form:** Liquid  
**Colour:** Clear  
 Uncoloured  
**Odour:** Characteristic

· **Change in condition**

**Melting point/Melting range:** Not determined  
**Boiling point/Boiling range:** Not determined

· **Flash point:**

34°C (Pensky M. cc)  
 This product with a flashpoint between 21 °C and 61 °C supports combustion.

· **Spontaneous combustion:**

Product is not self igniting.

· **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

· **Density at 20°C**

0.97 g/cm<sup>3</sup>

· **Solubility in / Miscibility with**

**Water:** Fully miscible

· **pH-value:**

10.0 < pH ≤ 10.5

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Reacts with acids.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **Acute toxicity:**
- **LD50 (oral):** Based on the toxicological classification the LD50 (oral) is estimated to be > 2000 mg/kg.
- **Primary irritant effect:**
- **skin contact:** Unlikely to be irritant in normal use.
- **eye contact:** Unlikely to be irritant in normal use.
- **inhalation:** Can cause irritation.
- **ingestion:** Unlikely to be harmful unless excessive amount ingested.
- **Additional toxicological information:**  
 The product is not subject to labelling requirements for toxicological properties or human health effects under the EC Dangerous Substances and Preparations Directives.  
 When used and handled according to instructions, the product is unlikely to have any harmful effects.

**12 Ecological information:**

- **General notes:**  
 When used for its intended purpose this product should not cause adverse effects in the environment.

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**13 Disposal considerations**

- **Product**
  - **Recommendation:** Dispose of observing official regulations.
- |   |
|---|
| · <b>European waste catalogue</b>                     |
| 20 01 29   detergents containing dangerous substances |
- **Uncleaned packagings**
  - **Recommendation:** Dispose of observing official regulations.
  - **Recommended cleaning agent:** Water, if necessary with cleaning agent.

**14 Transport information**

- **Land transport ADR/RID (cross-border)**



- **ADR/RID Class:** 3 Flammable liquids.
- **Kemler Number:** 30
- **UN-Number:** 1987
- **Packaging group:** III
- **Label:** 3
- **Proper Shipping Name:** EN: Alcohols, flammable, n.o.s. (Mixture in water)

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1987
- **Label:** 3
- **Packaging group:** III
- **Marine pollutant:** No
- **Proper Shipping Name:** ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL))

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1987
- **Label:** 3
- **Packaging group:** III
- **Proper Shipping Name:** ALCOHOLS, N.O.S. (ETHANOL)

- **Transport/Additional information:**

Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

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**15 Regulatory information**

- **Classification according to EC guidelines:**  
*The product has been classified and labelled in accordance with current EC Directives.*
- **Risk phrases:**  
*10 Flammable.*
- **Safety phrases:**  
*2 Keep out of the reach of children.*  
*23 Do not breathe spray.*  
*46 If swallowed, seek medical advice immediately and show this container or label.*  
*51 Use only in well-ventilated areas.*

**16 Other information:**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract.*

- **Text of risk phrases associated with ingredients listed in section 2**  
*11 Highly flammable.*  
*36 Irritating to eyes.*  
*67 Vapours may cause drowsiness and dizziness.*
- **Department issuing material safety data sheet:** see page 1
- **Contact:** +31(0)10 2981111
- **International references:** 61602-008
- **MSDS code:**
- **Version:** 2
- **MSDS review date:** 22.07.2005
- **Formulation code:** 61602-B