

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 14.07.2009

Revision: 14.07.2009

**1 Identification of substance**· **Product details**· **Trade name: Scanspray**· **Application of the substance / the preparation** Auxiliary· **Manufacturer/Supplier:**Heraeus Kulzer GmbH  
Grüner Weg 11, D-63450 Hanau

Tel.: 0800 4372522

· **Informing department:**Dr. Andreas Unkelbach  
Tel: +49 6181 35-3191  
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E-mail: andreas.unkelbach@heraeus.com· **Emergency information:** Call +49 30 19240 (24 hours).**2 Hazards identification**· **Hazard designation:**Xi Irritant  
F+ Extremely flammable· **Information pertaining to particular dangers for man and environment**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Has a narcotizing effect.

R 12 Extremely flammable.

R 36 Irritating to eyes.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Keep out of the reach of children

· **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

**3 Composition/information on ingredients**· **Chemical characterization**· **Description:** -· **Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7	butane, pure	F+; R 12	60-65%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol	Xi, F; R 11-36-67	20-25%
CAS: 74-98-6 EINECS: 200-827-9	propane liquefied	F+; R 12	10-15%

· **Additional information** For the wording of the listed risk phrases refer to section 16.

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**4 First aid measures**

- **After inhalation**  
Supply fresh air.  
Seek immediate medical advice.
- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Seek immediate medical advice.

**5 Fire fighting measures**

- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or flue gases:**  
Formation of toxic gases is possible during heating or in case of fire.  
Can form explosive gas-air mixtures.
- **Protective equipment:**  
Wear self-contained breathing apparatus.  
Wear full protective suit.
- **Additional information** Cool endangered containers with water spray jet.

**6 Accidental release measures**

- **Person-related safety precautions:**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Send for recovery or disposal in suitable containers.
- **Additional information:**  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

**7 Handling and storage**

- **Handling**
  - **Information for safe handling:**  
Wear protective equipment. Keep unprotected persons away.  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle container with care.
  - **Information about protection against explosions and fires:**  
Do not spray on flames or red-hot objects.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage**
  - **Requirements to be met by storerooms and containers:**  
Store in cool location.  
Observe official regulations on storing packagings with pressurized containers.

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- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Do not seal container gastight.  
Store in cool, dry conditions in well sealed containers.  
Protect from heat and direct sunlight.

**8 Exposure controls and personal protection**

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

- **Components with critical values that require monitoring at the workplace:**

**106-97-8 butane, pure**

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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**67-63-0 propan-2-ol**

WEL	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Personal protective equipment**

- **General protective and hygienic measures**

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

Use breathing protection in case of insufficient ventilation.

Filter A/P2.

- **Protection of hands:** Solvent resistant gloves

- **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Butyl rubber, BR

- **Eye protection:** Tightly sealed safety glasses.

- **Body protection:** Light weight protective clothing

**9 Physical and chemical properties:**

- **General Information**

· <b>Form:</b>	Aerosol
· <b>Colour:</b>	White
· <b>Smell:</b>	Alcohol-like

- **Change in condition**

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

- **Boiling point/Boiling range:** Not applicable, as aerosol

- **Flash point:** Not applicable, as aerosol

- **Ignition temperature:** 365°C

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- |   |  |
|---|--|
| · <b>Self-inflammability:</b>             | Product is not selfigniting.   |
| · <b>Danger of explosion:</b>             | Product is not explosive. However, formation of explosive air/vapour mixtures is possible. |
| · <b>Critical values for explosion:</b>   |  |
| · <b>Lower:</b>                           | 1.5 Vol %  |
| · <b>Upper:</b>                           | 12.0 Vol %   |
| · <b>Density at 20°C</b>                  | 0.72 g/cm <sup>3</sup>   |
| · <b>Solubility in / Miscibility with</b> |  |
| · <b>Water:</b>                           | Partly soluble   |

**10 Stability and reactivity**

- **Conditions to be avoided:**  
No decomposition if used and stored according to specifications.  
Protect from heat and direct sunlight.
- **Dangerous reactions** Forms explosive gas mixture with air
- **Dangerous products of composition:** None
- **Additional information:** -

**11 Toxicological information**

- **Acute toxicity:**
  - **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** Irritant effect.
  - **Sensitization:** No sensitizing effect known.

**12 Ecological information:**

- **General notes:** Avoid transfer into the environment.

**13 Disposal considerations**

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

**14 Transport information**

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 2 5F Gases.
- **Kemler Number:** 23

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- **UN-Number:** 1950
- **Packaging group:** -
- **Label** 2.1
- **Designation of goods:** 1950 AEROSOLS

- **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Correct technical name:** AEROSOLS

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



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Correct technical name:** AEROSOLS, flammable

- **Transport/Additional information:** -

### 15 Regulatory information

- **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

- **Code letter and hazard designation of product:**

Xi Irritant  
F+ Extremely flammable

- **Risk phrases:**

12 Extremely flammable.  
36 Irritating to eyes.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.

- **Safety phrases:**

23 Do not breathe aerosol.  
24/25 Avoid contact with skin and eyes.  
51 Use only in well-ventilated areas.

- **Special designation of certain preparations:**

Do not spray on flames or red-hot objects.  
Keep ignition sources away - Do not smoke.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.  
Do not pierce or burn, even after use.

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Keep out of the reach of children

**· National regulations****· Decree to be applied in case of technical fault:**

Critical quantity values according to the regulations on accidents should be adhered to.

**16 Other information:**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant R-phrases**

11 Highly flammable.

12 Extremely flammable.

36 Irritating to eyes.

67 Vapours may cause drowsiness and dizziness.

**· Contact:**

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**· \* Data compared to the previous version altered.**

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