

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Adhesive Spray KK 100

Print date: 12.02.2013

Product code: VCSO-GD-012

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Adhesive Spray KK 100

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

adhesives

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Company name:	GUNOLD GmbH		
Street:	Obernburger Straße 125		
Place:	D-63811 Stockstadt		
Telephone:	+49 (0)6027 - 2 00 80	Telefax:	+49 (0)6027 - 37 72
e-mail:	service@gunold.de		
Contact person:	Christoph Gunold	Telephone:	+49 (0)6027 - 2 00 80
e-mail:	c.gunold@gunold.de		
Internet:	www.gunold.de		
Responsible Department:	Qualität und Umwelt		

### 1.4. Emergency telephone

**number:** Poisoning emergency number (Mainz, Germany)

+49 (0)6131-19240 (24h)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Indications of danger: Extremely flammable

R phrases:

Extremely flammable.

### 2.2. Label elements

Danger symbols: F+ - Extremely flammable



F+ - Extremely flammable

#### R phrases

12 Extremely flammable.

#### S phrases

02 Keep out of the reach of children.  
23 Do not breathe aerosol.  
51 Use only in well-ventilated areas.

#### Special labelling of certain mixtures

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

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

### 2.3. Other hazards

Prolonged/repetitive product contact may cause mucosa and skin irritation like redness, blistering,

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dermatitis etc. The components in this mixture do not meet the criteria for classification as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
204-065-8	dimethyl ether	50-100 %
115-10-6	F+ - Extremely flammable R12	
603-019-00-8	Flam. Gas 1, Compressed gas; H220 H280	
203-714-2	dimethoxymethane	5-10 %
109-87-5	F - Highly flammable R11	
	Flam. Liq. 2, Acute Tox. 4; H225 H302	
01-2119664781-31		

Full text of R and H phrases: see Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of troubles or persistent symptoms, consult an doctor/physician.

Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.

In case of irregular breathing or respiratory arrest, perform artificial respiration.

#### After inhalation

Provide fresh air.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing.

#### After contact with eyes

IF IN EYES: Rinse cautiously with water for several minuts. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion

Immediately get medical attention. Do not induce vomiting.

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

Prolonged/repetitive product contact may cause mucosa and skin irritation like redness, blistering, dermatitis etc.

### 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

Foam. Water fog. Carbon dioxide (CO2).

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#### Extinguishing media which must not be used for safety reasons

High power water jet.

#### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to harmful gases and vapours.

#### 5.3. Advice for firefighters

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

#### Additional information

Extinguishing materials should be selected according to the surrounding area. Use water spray/stream to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment. In case of product being released into lakes, rivers or the drainage system, appropriate authorities must be informed.

#### 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). Treat the assimilated material according to the section on waste disposal.

#### 6.4. Reference to other sections

For waste disposal see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Consider the usual precautions for handling chemicals.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Ensure adequate ventilation of the storage area.

#### 7.3. Specific end use(s)

adhesives

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
109-87-5	Dimethoxymethane	1000	3160		TWA (8 h)	WEL
		1250	3950		STEL (15 min)	WEL
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL

#### 8.2. Exposure controls

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#### Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and at the end of work. When using do not eat or drink. Avoid skin, eye and clothing contact. After contact with skin, wash immediately with plenty of water and soap or a suitable cleaning agent.

#### Respiratory protection

Not required if used properly.

#### Hand protection

Chemical resistant safety gloves, e.g. made out of nitrile.

Recommendation splash contact: Protection index 2, penetration time >30 min, e.g. butyl rubber 0,4 mm.

Recommendation direct, prolonged contact: Protective index 6, penetration time > 480 min, e.g. nitrile rubber 0.4 mm

#### Eye protection

Tightly sealed safety glasses.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	several
Odour:	characteristic

#### Test method

pH-Value:	not applicable
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#### Changes in the physical state

Melting point:	No data available
Boiling point:	-42 °C
Flash point:	-45 °C DIN 53213

#### Flammability

Solid:	No data available
Gas:	not applicable

#### Explosive properties

No data available

Lower explosion limits:	1,4 vol. %
Upper explosion limits:	18,6 vol. %
Ignition temperature:	235 °C

#### Auto-ignition temperature

Solid:	No data available
Gas:	No data available

#### Oxidizing properties

No data available

Vapour pressure: (at 20 °C)	344,31 hPa
Density:	0,66 g/cm³
Water solubility:	unlöslich

#### Solubility in other solvents

No data available

Partition coefficient:	No data available
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Viscosity / dynamic: not applicable  
Vapour density: No data available  
Evaporation rate: No data available

#### 9.2. Other information

Temperature of decomposition: No data available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

The product is stable when stored and handled appropriately.

#### 10.3. Possibility of hazardous reactions

No information available.

#### 10.4. Conditions to avoid

high temperature (above the decomposition temperature) For further information concerning storage: see section 7.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No information available.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

CAS No	Chemical name			
	Exposure routes	Method	Dose	Species
109-87-5	dimethoxymethane			
	oral	ATE	500 mg/kg	

##### Irritation and corrosivity

Prolonged/repetitive product contact may cause mucosa and skin irritation like redness, blistering, dermatitis etc.

##### Carcinogenic/mutagenic/toxic effects for reproduction

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

##### Additional information on tests

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

### SECTION 12: Ecological information

#### 12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains or the aquatic environment. Storage on public landfill is prohibited. Discharge of low concentrations into adapted biological treatment plants will not derange the degradation activity of activated sludge.

#### 12.2. Persistence and degradability

No data available

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#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other adverse effects

No data available

#### **Further information**

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### **Advice on disposal**

Do not empty into drains or the aquatic environment. Waste disposal according to official state regulations.

##### **Waste disposal number of waste from residues/unused products**

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances  
Classified as hazardous waste.

##### **Contaminated packaging**

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS, flammable  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Transport category: 2  
Tunnel restriction code: D

#### **Other applicable information (land transport)**

Excepted Quantity: E0

#### **Inland waterways transport (ADN)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS, flammable

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**14.3. Transport hazard class(es):** 2

**14.4. Packing group:** -

Hazard label: 2.1



Classification code: 5F

Special Provisions: 190 327 344 625

Limited quantity: 1 L

#### Other applicable information (inland waterways transport)

Excepted Quantity: E0

#### Marine transport (IMDG)

**14.1. UN number:** UN1950

**14.2. UN proper shipping name:** AEROSOLS, flammable

**14.3. Transport hazard class(es):** 2

**14.4. Packing group:** -

Hazard label: 2, see SP63

Special Provisions: 63, 190, 277, 327, 344, 959

Limited quantity: See SP277

EmS: F-D, S-U

#### Other applicable information (marine transport)

Excepted Quantity: E0

#### Air transport (ICAO)

**14.1. UN number:** UN1950

**14.2. UN proper shipping name:** AEROSOLS, flammable

**14.3. Transport hazard class(es):** 2.1

Hazard label: 2.1



Special Provisions: A145 A167 A803

Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger: 203

IATA-max. quantity - Passenger: 75 kg

IATA-packing instructions - Cargo: 203

IATA-max. quantity - Cargo: 150 kg

#### Other applicable information (air transport)

Excepted Quantity: E0

Passenger-LQ: Y203

#### 14.5. Environmental hazards

Dangerous for the environment: no

#### 14.6. Special precautions for user

No special precautions known.

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#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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### SECTION 15: Regulatory information

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

##### EU regulatory information

1999/13/EC (VOC): 743,599 g/l

##### National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 1 - slightly water contaminating

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

Version 1,00 - Creation - 29.07.2011

Version 1,01 - changes of S-phrases - 02.08.2012

Version 1,02 - revision of the entire SDS due to new information from the presupplier - 12.02.2013

#### Full text of R phrases referred to under Sections 2 and 3

- 11 Highly flammable.
- 12 Extremely flammable.

#### Full text of H statements referred to under Sections 2 and 3

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.

#### Further Information

The information given in this product information data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The product information data sheet was generated upon information of pre-suppliers by:

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www.reacheck.com

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