

according to Regulation (EC) No 1907/2006

Adhesive Spray KK 100

Revision date: 12.09.2017

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

Uses advised against

Only use for the intended purpose. In case of doubt please contact our responsible department.

1.3. Details of the supplier of the safety data sheet

Company name:	GUNOLD GmbH	
Street:	Obernburger Straße 125	
Place:	GB-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:	Quality Control and Environment	
1.4. Emergency telephone	Poison Control Center (Mayence, GER)	
number:	+49 (0)6131-19240 (24h)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Aerosol: Aerosol 1 Hazard Statements: Extremely flammable aerosol. Pressurised container: May burst if heated.

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

Hazard statements	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
Precautionary staten	nents
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P261	Avoid breathing Aerosol.
P271	Use only outdoors or in a well-ventilated area.



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Dispose of waste according to applicable legislation.

2.3. Other hazards

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

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulat	ion (EC) No. 1272/2008 [CLP]	•	
115-10-6	dimethyl ether			50 - 70 %
	204-065-8	603-019-00-8	01-2119472128-37	
	Flam. Gas 1, Compressed gas; H2	20 H280		
109-87-5	dimethoxymethane			5 - 7 %
	203-714-2		01-2119664781-31	
	Flam. Liq. 2; H225			

Full text of H and EUH statements: 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 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Call a physician immediately. 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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Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Heating causes rise in pressure with risk of bursting. 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

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

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 allow to enter into surface water or drains. 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 recovered material as prescribed in 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.

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

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



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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	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

Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after 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.

Eye/face protection

Tightly sealed safety glasses.

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

Skin protection

Wear anti-static footwear and clothing

Respiratory protection

Not required if used properly.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid		
Colour:	various		
Odour:	characteristic		
			Test method
pH-Value:		not applicable	
Changes in the physical state			
Melting point:		No data available	
Initial boiling point and boiling range:		-42 °C	
Flash point:		-45 °C	DIN 53213
Flammability			
Solid:		No data available	
Gas:		not applicable	
Explosive properties			
No data available			



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Lower explosion limits:	1,4 vol. %	
Upper explosion limits:	19,9 vol. %	
Ignition temperature:	235 °C	
Auto-ignition temperature Solid: Gas:	No data available No data available	
Decomposition temperature:	No data available	
Oxidizing properties No data available		
Vapour pressure: (at 20 °C)	344,3697 hPa	
Density (at 20 °C):	0,80 g/cm³	
Water solubility:	practically insoluble	
Solubility in other solvents No data available		
Partition coefficient:	No data available	
Viscosity / dynamic:	not applicable	
Vapour density:	No data available	
Evaporation rate:	No data available	
Solvent content:	93 %	
9.2. Other information		
Solid content:	7,09 %	

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

Keep away from strong acids, strong bases and strong oxidisers to avoid exothermic reactions.

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

Based on available data, the classification criteria are not met.



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
115-10-6	dimethyl ether					
	inhalative (4 h) vapour	LC50	308 mg/l	Rat		

Irritation and corrosivity

Based on available data, the classification criteria are not met.

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

eic.

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.

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

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

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 hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.



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SECTION 14: Transport information

Land transport (ADR/RID)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS, flammable
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1
	2.
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity: Transport category:	E0 2
Tunnel restriction code:	D
Inland waterways transport (ADN)	
14.1. UN number:	UN 1950
<u>14.1. UN number:</u> <u>14.2. UN proper shipping name:</u>	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
Excepted quantity:	E0
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS, flammable
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
Hazard label:	2.1
	2
Special Provisions:	63, 190, 277, 327, 344, 381,959
Limited quantity:	1000 mL
Excepted quantity:	E0
EmS:	F-D, S-U
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS, flammable
14.3. Transport hazard class(es):	2.1



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14.4. Packing group:	-		
Hazard label:	2.1		
Special Provisions: Limited quantity Passenger: Passenger LQ: Excepted quantity:	A145 A167 A802 30 kg G Y203 E0		
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:		203 75 kg 203 150 kg	
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	no		
14.6. Special precautions for user No special precautions known.			
14.7. Transport in bulk according to Annex not applicable	II of Marpol and the I	BC Code	
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regu EU regulatory information Restrictions on use (REACH, annex XVII)		ecific for the substance or mixture	
Entry 28: butane; isobutane 2004/42/EC (VOC):	743,599 g/l		
Additional information	743,399 g/i		
Regulation (EC) No. 648/2004 (Deterg Regulation (EC) No. 1005/2009 on su Regulation (EC) No 850/2004 on pers Regulation (EC) No 689/2008 of the E of dangerous chemicals: This mix con (annex 1). This mixture contains the following su Candidate List according to Article 59	bstances that lead to t istent organic pollutan uropean Parliament a tains no chemicals tha ostances of very high o of REACH: none ostances of very high o	he depletion of the ozone layer: not applicable	
National regulatory information			
Employment restrictions:	work protection gui	s to employment for juvenils according to the 'juven deline' (94/33/EC). Observe employment restrictions Protection Directive (92/85/EEC) for expectant or	
Water contaminating class (D):	1 - slightly water co	ntaminating	
15.2. Chemical safety assessment For the following substances of this m dimethyl ether	ixture a chemical safe	ty assessment has been carried out:	

SECTION 16: Other information

Changes



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This data sheet contains changes from the previous version in section(s): 1,2,3,5,7,8,9,10,11,12,14,15,16. 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 Version 1,03 - Classification/Labeling according Regulation No.1272/2008 (GHS/CLP) and general revision -09.06.2015 Version 1,04 - General update - 12.09.2017 Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act CAS: Chemical Abstracts Service DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization) EC: Effective Concentration EG: European Community (Europäische Gemeinschaft) EN: European Norm IATA: International Air Transport Association IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk ICAO: International Civil Aviation Organization IMDG: International Maritime Code for Dangerous Goods ISO: Norm of the International Standards Organization CLP: Classification, Labeling, Packaging IUCLID: International Uniform ChemicaL Information Database LC: Lethal concentration LD: Lethal dose log Kow: Octanol/water partition coefficient MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships OECD: Organisation for Economic Co-operation and Development PBT: Persistent, bio-cumulative, toxic RID: Regulation Concerning the International Transport of Dangerous Goods by Rail TRGS: Technische Regeln für Gefahrstoffe **UN: United Nations** VOC: Volatile Organic Compounds vPvB: very persistent and very bio-cumulative VwVwS: Administrative Regulation for Water Pollutants WGK: German Water Hazard Class GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances DNEL: Derived No Effect Level PNEC: Predicted No Effect Concentration TLV: Threshold Limiting Value STOT: Specific Target Organ Toxicity Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP] Classification Classification procedure Aerosol 1; H222-H229 On basis of test data

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.



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Further Information

The information given in this safety 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 safety data sheet was generated upon information of pre-suppliers by:

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