

Gößl + Pfaff GmbH

KLEBSTOFFE COMPOSITE KUNSTHARZE

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Safety Data Sheet (1907/2006/EC)

Material: 70106002 SILICONSPRAY AK SILICONE SPRAY AK

Version: 2.7 (GB) Date of print: 08.11.2022 Date of last alteration: 30.03.2022

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

1.1 Product identifier

Commercial product name: SILICONSPRAY AK SILICONE SPRAY AK

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

Use of substance / preparation: End user. Commercial. Industrial.

release agent

1.3 Details of the supplier of the safety data sheet

Manufacturer/distributor:DRAWIN Vertriebs-GmbHStreet/POB-No.:Rudolf-Diesel-Straße 15State/postal code/city:D 85521 RiemerlingTelephone:+49 89 60869-0

Contact point: Wacker Chemicals Ltd.

Street/POB-No.: 2 Arlington Square, Downshire Way

Postal code/city: Bracknell RG12 1WA
Country: United Kingdom
Telephone: +44 1344 401 670

Information about the Safety Data Sheet: Telephone +49 8677 83-4888

eMail WLCP-MSDS@wacker.com

1.4 Emergency telephone number

Emergency Information: +44 1273 289451

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

Classification	H-Code
Aerosols, Category 1	H222 H229

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008:

Pictogram(s):



Signal Word: Danger

H-Code	Hazard Statements
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
P-Code	Precautionary Statements
P102	Keep out of reach of children.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
P501	Dispose of contents/container to waste disposal.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 80 %.

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 80 %.



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2.3 Other hazards

Liquified gas: Liquid flowing out can cause frostbites. The gas is heavier than air, it may collect in low-lying areas.

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

3.2.1 Chemical characteristics

Polydimethylsiloxane + propellant

3.2.2 Hazardous ingredients

Type	CAS No.	EC-No.	Substance	Content %	Classification	Comment
		REACH no.			according to	
					Regulation (EC) No.	
					1272/2008*	
VERU	556-67-2	209-136-7	Octamethylcyclotetrasiloxane	>=0,01 -	Repr. 2; H361f	[1], [3], [4]
				<0,025	Aquatic Chronic 1;	Mc = 10
					H410	
					Flam. Liq. 3; H226	

Type: INHA: ingredient, VERU: impurity

REACH registered substances may be included as impurities. These do not necessarily require identified uses and exposure scenarios in the safety data sheet.

[1] = Hazardous or environmentally harmful substance; [2] = substance with a Community workplace exposure limit; [3] = PBT substance; [4] = vPvB substance

Ma = M-factor for acute aquatic toxicity

Mc = M-factor for chronic aquatic toxicity

*Classification codes are explained in section 16.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above ≥ 0.1%.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After contact with the skin:

Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After inhalation:

Provide fresh air.

After swallowing:

Give several small portions of water to drink. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.



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4.3 Indication of any immediate medical attention and special treatment needed

Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

alcohol-resistant foam, carbon dioxide, water mist, sprinkler system, sand, extinguishing powder.

Extinguishing media which must not be used for safety reasons:

water jet .

5.2 Special hazards arising from the substance or mixture

Heating may cause explosion. Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: toxic and very toxic fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

General information:

Heating leads to increased pressure and bursting of the container. Cool endangered containers with water. Fight fire from a safe distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.

6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Condense gasses/vapours/mists using a directed spray of water. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3 Methods and material for containment and cleaning up

Exhaust vapours. Use absorbant materials to pick up residual liquids. Take up mechanically and dispose of according to local/state/federal regulations. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner

Further information:

Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling:

Ensure adequate ventilation. Observe information in section 8. Keep away from incompatible substances in accordance with section 10.



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Precautions against fire and explosion:

Do not open sprays violently and do not keep above 50 °C (122 °F). Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Vapours heavier than air, therefore inflammable gas mixture may form mainly near floor. Do not use on oxygen instruments. In case of fire remove container out of endangered area. Cool endangered containers with water.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:

Observe local/state/federal regulations.

Advice for storage of incompatible materials:

Do not store with strong oxidizing agents, peroxides or oxidizing substances. Observe local/state/federal regulations.

Further information for storage:

Store in original container only. Store in a dry and cool place. Do not expose the product to thermal radiation. Protect against sun. Store container in a well ventilated place.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Maximum airborne concentrations at the workplace:

Substance	Туре	mg/m ³	ppm	Dust fract.	Fibre/m ³
n-Butane	OEL	1450,0	600,0		

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Observe standard industrial hygiene practices for the handling of chemical substances. Do not inhale gases/vapours/aerosols. Use with adequate ventilation. Avoid contact with eyes and skin. Preventive skin protection recommended. Remove contaminated, soaked clothing immediately. Clean work areas regularly. Provide emergency shower and eye-bath. Do not eat, drink or smoke when handling.

Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

Personal protection equipment:

Respiratory protection

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Gas filter type AX (certain low-boiling organic compounds with boiling point ≤ 65°C), according to acknowledged standards such as EN 14387

For long or intense exposure, or for mist, spray or aerosol exposure, use respiratory protective equipment. Positive pressure self contained breathing apparatus, according to acknowledged standards such as EN 137.

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection

tight fitting protective goggles.

Hand protection

Protective gloves are required at all times when handling the material, according to recognized standards such as EN374.

Recommended glove types: Protective gloves made of nitrile rubber



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thickness of the material: > 0,4 mm Breakthrough time: > 60 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Skin protection

protective clothing.

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

SECTION 9: Physical and chemical properties

Property:	Value:	Method:
Appearance		
Physical state	liquid	
Form	·	
Colour	colourless	
Odour		
Odour	neutral	
Odour limit		
Odour limit	no data available	
oH-Value		
pH-Value	Not applicable. Insoluble in water.	
Melting point/freezing point		
Melting point / melting range	not applicable	
nitial boiling point and boiling range	•	
Boiling point / boiling range	not applicable	
Flash point		
Flash point	-104 °C	(not specified)
Sustained combustibility		, ,
Evaporation rate		
Evaporation rate	no data available	
Upper/lower flammability or explosive limits		
Lower explosion limit (LEL)	1,5 Vol-%	(not specified)
Upper explosion limit (UEL)		(not specified)
Vapour pressure		(,
Vapour pressure	7300 hPa / 50 °C	(not specified)
Vapour pressure		(not specified)
Solubility(ies)		(,
Water solubility / miscibility	practically insoluble	
Vapour density	,,	
Relative gas/vapour density	No data known.	
Relative Density		
Relative Density	0.6 (20 °C)	(not specified)
· · · · · · · · · · · · · · · · · · ·	(Water / 4 °C = 1,00)	(
Density	0.6 g/cm³ (20 °C)	(not specified)
Partition coefficient: n-octanol/water		()
Partition coefficient: n-octanol/water	No data known.	
Auto-ignition temperature		
Ignition temperature	400 °C	(DIN 51794)
		· · · · · · · · /
Decomposition temperature		



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(Lit.)

Viscosity

Viscosity (dynamic) not applicable Viscosity (kinematic) not applicable

Explosive properties

Explosion group...... II A

Molecular mass

Molecular mass not applicable

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 - 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

Heat, open flames, and other sources of ignition.

10.5 Incompatible materials

Reacts violently with: strong oxidizing agents. The reaction takes place with the formation of heat to the point of explosion.

10.6 Hazardous decomposition products

If stored and handled properly: none known. The following applies for the silicone content of the substance: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 General information

Data derived for the product as a whole are of higher priority than data for single ingredients.

11.1.2 Acute toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Acute toxicity estimate (ATE):

ATE_{mix} (Oral): > 2000 mg/kg

Data on substances:

Polydimethylsiloxane:

Route of exposure	Result/Effect	Species/Test system	Source
Oral	LD50: > 5000 mg/kg	Rat	literature
dermal	LD50: > 2008 mg/kg	Rat	literature

11.1.3 Skin corrosion/irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substances:

Polydimethylsiloxane:

Result/Effect	Species/Test system	Source
No skin irritation	Rabbit	literature



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No skin irritation Human skin patch test; literature Voluntary persons

11.1.4 Serious eye damage / eye irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substances:

Polydimethylsiloxane:

Result/Effect	Species/Test system	Source	
No eye irritation	Rabbit	literature	

11.1.5 Respiratory or skin sensitization

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substances:

Polydimethylsiloxane:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	Does not cause skin sensitisation.	Guinea pig; Maximisation Test	literature
			OECD 406

11.1.6 Germ cell mutagenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substances:

Polydimethylsiloxane:

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro)	literature
	bacterial cells	OECD 471

11.1.7 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity (single exposure)

Assessment:

Vapours may be narcotising.

11.1.10 Specific target organ toxicity (repeated exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.11 Aspiration hazard

Assessment:

In case an aspiration hazard is based on ingredients, this can be seen from the classification and labeling of the whole product.



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SECTION 12: Ecological information

12.1 Toxicity

Assessment:

For the product as a whole, no test data is available. D4 is an unavoidable contamination in the manufacture of silicone polymers and leads to adverse effects on aquatic organisms under laboratory conditions. It could be shown experimentally that, from a polysiloxane matrix with up to 3% D4, taking into account the silicone/water partition equilibrium, it is not possible to reach a concentration of D4 in water that would lead to chronic ecotoxicity effects in a corresponding OECD study. Accordingly, D4 does not contribute to a hazard from silicone polymers up to this limit."

Data on substances:

Data derived for the product as a whole are of higher priority than data for single ingredients.

Polydimethylsiloxane:

Based on available data no effects on aquatic organisms that are relevant for classification must be expected for the product up to its limits of water solubility.

Result/Effect	Species/Test system	Source
> 1000 mg/l (nominal)	static test	literature
The effect level is greater than the maximum achievable	Fish (96 h)	
concentration. The value refers to the water-		
accommodated fraction (WAF).		
EC50: > 0,0001 mg/l (measured)	static test	literature
The effect level is greater than the maximum achievable	Daphnia magna (Water flea) (48 h)	
concentration. The value refers to the water-		
accommodated fraction (WAF).		
IC50 (Growth rate): > 100000 mg/l (nominal)	Skeletonema costatum (marine diatom) (72 h)	literature
NOEC: > 10000 mg/kg	feeding study	literature
	Oncorhynchus mykiss (rainbow trout) (28 d)	
NOEC (mortality): > 500 mg/kg	exposure via sediment	literature
The exposure to treated sediment did not result in	Daphnia magna (Water flea) (21 d)	
effects.		
NOEC (Growth): > 500 mg/kg	exposure via sediment	literature
The exposure to treated sediment did not result in	Daphnia magna (Water flea) (21 d)	
effects.		
NOEC (reproduction rate): > 500 mg/kg	exposure via sediment	literature
The exposure to treated sediment did not result in	Daphnia magna (Water flea) (21 d)	
effects.		

12.2 Persistence and degradability

Assessment:

Polymer component: biologically not degradable. Elimination by adsorption to activated sludge.

Data on substances:

Polydimethylsiloxane:

Not readily biodegradable. Polydimethylsiloxanes are degradable to a certain extent in abiotic processes.

12.3 Bioaccumulative potential

Assessment:

Polymer component: No adverse effects expected.

12.4 Mobility in soil

Assessment:

Polymer component: insoluble in water.



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12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

none known

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation:

Fully empty can. Observe local/state/federal regulations.

13.1.2 Uncleaned packaging

Recommendation:

Pressure gas pack under pressure, must not be forced open or heated above 50 °C (122 °F). Dispose of only completely emptied pressure gas pack. Do not incinerate empty pressure gas packs. Do not pierce, cut or sold uncleansed containers. Containers may be recycled or re-used. Observe local/state/federal regulations.

13.1.3 Waste Disposal Legislation Ref.No.(EC)

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

SECTION 14: Transport information

14.1 - 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

Road ADR:

Valuation	Dangerous Goods
14.1 UN no	1950
14.2 Proper Shipping Name	Druckgaspackungen
14.2 Proper Shipping Name (national):	AEROSOLS
4.4.0.01	0.4

14.3 Class 2.1

Railway RID:

14.3 Class 2.1

Transport by sea IMDG-Code:

 Valuation
 Dangerous Goods

 14.1 UN no
 1950

 14.2 Proper Shipping Name
 Aerosols

 14.3 Class
 2.1

Air transport ICAO-TI/IATA-DGR:

14.5 Environmental hazards

Hazardous to the environment: no Marine Pollutant (IMDG): no



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Special precautions for user 14.6

Relevant information in other sections has to be considered.

Transport in bulk according to Annex II of MARPOL and the IBC Code

Bulk transport in tankers is not intended.

SECTION 15: Regulatory information

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

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III):

Listed in Directive	Ser. number in list	Qualifying Quantity 1	Qualifying Quantity 2
FLAMMABLE AEROSOLS	P3b	5.000 t	50.000 t

Relevant regulations:

SI 2002/1689: CHIP Regulations 2002 SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999

Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

Other specifications, restrictions and prohibitions:

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX I. RESTRICTED EXPLOSIVES PRECURSORS: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX II. REPORTABLE EXPLOSIVES PRECURSORS: Not applicable

Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

Japan:	ENCS (Handbook of Existing and New Chemical Substances):
	This product is listed in, or complies with, the substance inventory.
Australia:	AIIC (Australian Inventory of Industrial Chemicals):
	This product is listed in, or complies with, the substance inventory.
China:	IECSC (Inventory of Existing Chemical Substances in China):
	This product is listed in, or complies with, the substance inventory.
Canada:	DSL (Domestic Substance List):
	This product is listed in, or complies with, the substance inventory.
Philippines:	PICCS (Philippine Inventory of Chemicals and Chemical Substances):
	This product is listed in, or complies with, the substance inventory.
United States of America (USA):	TSCA (Toxic Substance Control Act Chemical Substance Inventory):
	All components of this product are listed as active or are in compliance with the
	substance inventory.
Taiwan ·	TCSI (Taiwan Chemical Substance Inventory):

This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of

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European Economic Area (EEA)...... REACH (Regulation (EC) No 1907/2006):

General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA

Please approach your regular contact for more detailed information.

15.2 Chemical safety assessment

Due to the results of the chemical safety assessment, exposure scenarios and identified uses are not of relevance for this safety data sheet.

SECTION 16: Other information

16.1 Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

WACKER restricts the use of its products inside the human body or in contact with bodily fluids and mucosa. For further details please review our Health Care Policy on www.wacker.com. WACKER may cancel any delivery obligation(s) if the Health Care Policy is not observed.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

Explanation of the GHS classification code:

Repr. 2; H361f...... Reproductive toxicity Category 2; Suspected of damaging fertility.

Aquatic Chronic 1; H410 Long-term (chronic) aquatic hazard Category 1; Very toxic to aquatic life with long lasting effects.

Flam. Liq. 3; H226...... Flammable liquids Category 3; Flammable liquid and vapour.

Classification Rationale:
Aerosols, Category 1 Calculation method

- End of Safety Data Sheet -