

CP2910 v1.2 RS 187-3460



RS-GCS-FLOSIL-600-V1 FLOWABLE SILICONE

Safety Data Sheet

according to Regulation (EU) 2015/830

Issue date: 27/02/2019 Revision date: 29/01/2021 Supersedes version of: 06/11/2020 Version: 1.2

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

1.1. Product identifier

Product form	: Mixture
Product name	: RS-GCS-FLOSIL-600-V1 FLOWABLE SILICONE
UFI	: KSND-F0EH-E001-QK8C
Product code	: GCS-FLOSIL-600-V1
Type of product	: Fillers, putties, plasters, modelling clay

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

1.2.1. Relevant identified uses

Main use category	: Professional use
Use of the substance/mixture	: Silicone sealant - flows easily into hidden and hard-to-reach areas to fill voids and provide a durable seal
Use of the substance/mixture	: Fillers Insulating agents
Function or use category	: Adhesives, binding agents, Fillers, Semiconductors, Insulating agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

UK

RS Components Ltd
 Birchington Road
 Corby,
 Northants,
 NN17 9RS
 T + 44 (0) 845 850 9900
RCustomerServicesUK@rs-components.com

Ireland

RS Components Ltd
 Glenview Industrial Estate
 Herberton Road
 Rialto
 Dublin 12
 Tel No +353 (0) 1 415 3100
enquiries.ie@rs-components.com

1.4. Emergency telephone number

Emergency number : +44 1865 407 333 (24hr), +44 1235 239670 (24hr)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1, Sub-Category 1C	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) :

Danger

Contains :

3-aminopropyltriethoxysilane; METHYLTRIACETOXSILANE; N-(2-AMINOETHYL)-3-(TRIMETHOXSILYL)PROPYLAMINE; octamethylcyclotetrasiloxane

Hazard statements (CLP) :

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

Precautionary statements (CLP) :

P260 - Do not breathe vapours, spray.

P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective gloves.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-aminopropyltriethoxysilane	(CAS-No.) 919-30-2 (EC-No.) 213-048-4 (EC Index-No.) 612-108-00-0 (REACH-no) 01-2119480479-24-0010	< 3	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
METHYLTRIACETOXSILANE	(CAS-No.) 4253-34-3 (REACH-no) 01-2119962266-32	< 3	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318
N-(2-AMINOETHYL)-3-(TRIMETHOXSILYL)PROPYLAMINE	(CAS-No.) 1760-24-3 (EC-No.) 217-164 (REACH-no) 01-2119970215-39-0014	< 3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317
octamethylcyclotetrasiloxane substance listed as REACH Candidate (Octamethylcyclotetrasiloxane (D4)) PBT substance; vPvB substance	(CAS-No.) 556-67-2 (EC-No.) 209-136-7 (EC Index-No.) 014-018-00-1 (REACH-no) 01-2119529238-36	< 0.1	Repr. 2, H361f Aquatic Chronic 4, H413

Full text of H-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Seek medical attention immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Do not give mouth-to-mouth resuscitation if victim ingested or inhaled the substance.
First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. Wash off immediately with mild soap and cold water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Do not induce vomiting. Call a doctor if you feel unwell.

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

Symptoms/effects	: Ensure exposure is below occupational exposure limits (where available).
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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. SYMPTOMS MAY BE DELAYED.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: All extinguishing agents can be used.

5.2. Special hazards arising from the substance or mixture

Explosion hazard	: Prolonged exposure to fire may cause containers to rupture/explode. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
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5.3. Advice for firefighters

Firefighting instructions	: Fight fire from safe distance and protected location. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Self-contained breathing apparatus. Wear recommended personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ensure adequate ventilation. No flames, no sparks. Eliminate all sources of ignition. Take precautionary measures against static discharge. Evacuate unnecessary personnel. Keep upwind. Avoid breathing dust, mist or spray.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent liquid from entering sewers, watercourses, underground or low areas.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Absorb remaining liquid with sand or inert absorbent and remove to safe place. This material and its container must be disposed of in a safe way, and as per local legislation.
Other information	: No flames, no sparks. Eliminate all sources of ignition.

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6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Use only outdoors or in a well-ventilated area. Use personal protective equipment as required. Avoid contact with skin and eyes.
- Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep away from ignition sources. Keep container tightly closed. Store, if possible, in a cool, well ventilated place away from incompatible materials.
- Storage area : Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

Monitoring methods

Monitoring methods	Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.
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8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide adequate ventilation to minimize dust concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use spark-/explosionproof appliances and lighting system.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

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Eye protection:			
Type	Field of application	Characteristics	Standard
Safety goggles	Droplet		EN 166

8.2.2.2. Skin protection

Skin and body protection:	
Type	Standard
Flame Resistant Coveralls, Wear anti-static discharges clothing and shoes. Foresee ground with earth	

Hand protection:					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Butyl rubber				EN 374-2

8.2.2.3. Respiratory protection

Respiratory protection:			
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended			
Device	Filter type	Condition	Standard
Full face mask	ABEK-P3		EN 14387

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear to cloudy.
Colour	: No data available
Odour	: slight.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: ≥ 20.5 mm ² /s
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

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Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

3-aminopropyltriethoxysilane (919-30-2)

LD50 oral rat	> 1780 mg/kg
LD50 dermal rabbit	> 3.8 g/kg
LC50 Inhalation - Rat [ppm]	> 5 ppm/4h

METHYLTRACETOXYSILANE (4253-34-3)

LD50 oral rat	> 1600 mg/kg
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N-(2-AMINOETHYL)-3-(TRIMETHOXYSILYL)PROPYLAMINE (1760-24-3)

LD50 oral rat	7669 mg/kg
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octamethylcyclotetrasiloxane (556-67-2)

LD50 oral rat	> 2000 mg/kg
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LD50 dermal rat	> 2400 mg/kg
LC50 Inhalation - Rat	36 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

octamethylcyclotetrasiloxane (556-67-2)

NOAEL (dermal, rat/rabbit)	≥ 960 mg/kg bodyweight
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STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Viscosity, kinematic	≥ 20.5 mm ² /s
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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
Not rapidly degradable	

3-aminopropyltriethoxysilane (919-30-2)

LC50 - Fish [1]	> 934 mg/l
EC50 - Crustacea [1]	> 331 mg/l
EC50 72h - Algae [1]	> 1000 mg/l

N-(2-AMINOETHYL)-3-(TRIMETHOXYSILYL)PROPYLAMINE (1760-24-3)

LC50 - Fish [1]	597 mg/l
EC50 72h - Algae [1]	126 mg/l

12.2. Persistence and degradability

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Persistence and degradability	Not readily biodegradable. 3.7 % biodegradation 28d.
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3-aminopropyltriethoxysilane (919-30-2)

Biodegradation	> 67 %
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octamethylcyclotetrasiloxane (556-67-2)

Persistence and degradability	Not biodegradable.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	No bioaccumulation data available.
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3-aminopropyltriethoxysilane (919-30-2)

BCF - Fish [1]	> 5 mg/l
Bioconcentration factor (BCF REACH)	≈ 3.4
Partition coefficient n-octanol/water (Log Pow)	≈ 1.7

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

octamethylcyclotetrasiloxane (556-67-2)	This substance meets the PBT criteria of REACH regulation, annex XIII This substance meets the vPvB criteria of REACH regulation, annex XIII
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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Beware of residues or vapours which remain in the drums. hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

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Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: Octamethylcyclotetrasiloxane (D4) (EC 209-136-7, CAS 556-67-2)

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.
H413	May cause long lasting harmful effects to aquatic life.

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Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.