



Safety data sheet

According to regulation (EC) 1907/2006, 453/2010

Revision date: February 2015

Product name: Silicone RTV 181

Page: Page 1 of 7

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

1.1 Product identifier

Trade name: Silicone RTV 181

1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Substance/Mixture: Moulding diverse objects.

1.3 Details of the supplier of the safety data sheet

Company: Esprit Composite
22, Rue Gassendi
F-75014 Paris
France
Telephone: Tel: +33 1 4044 4797
Telefax: Fax: +33 1 4044 4951
Website: www.espritcomposite.com
E-mail: contact@espritcomposite.fr

1.4 Emergency telephone number:

NHS Direct England or Wales: +44 0845 4647
NHS 24 Scotland (UK only): +44 08454 242424

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended:

Xn; R48/20

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

Health Hazards:

Specific Target Organ Toxicity - Repeated Exposure, Category 1

Causes damage to organs through prolonged or repeated exposure.

Hazard summary:

Physical hazards:

No specific recommendations.

Health hazards:

Inhalation:

Quartz : When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use. Although classified according to EC criteria, this product is exempt from labelling according to article 23 and Annex 1 (section 1.3.4.1) of regulation (CE) n°1272/2008.

Eye contact:

No specific symptoms noted

Skin contact:

No specific symptoms noted

Ingestion:

No specific symptoms noted

Other Health Effects:

No other information noted

Environmental hazards:

Not regarded as dangerous for the environment

2.2 Label elements

Not applicable

2.3 Other hazards

No data available.

SECTION 3. Composition/information on ingredients

3.2 Mixtures



Safety data sheet

According to regulation (EC) 1907/2006, 453/2010

Revision date: February 2015

Product name: Silicone RTV 181

Page: Page 2 of 7

General information:

Mixture of Polyorganosiloxanes, fillers.

| Chemical name | CAS No. EC No. Registration number | Classification (67/548/CEE) | Classification (Regulation (EC) No 1272/2008) | Concentration (%) | Notes |
|----------------------------|--|-----------------------------|---|-------------------|-------|
| Quartz (SiO ₂) | 14808-60-7 | Xn; R48/20 | STOT RE 1;H372 | <20% | # |

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. # This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

CLP: Regulation No. 1272/2008.:

The full text for all R/H-phrases is displayed in section 16.

SECTION 4. First aid measures:

General advice:

Get medical attention if symptoms occur.
Contaminated clothing to be placed in closed container until disposal or decontamination.

4.1 Description of first aid measures

Inhalation:

Not relevant.

Eye contact:

In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

Skin Contact:

Remove contaminated clothing and shoes. Wash with soap and water.

Ingestion:

Do not induce vomiting. Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards:

No specific recommendations.

Treatment:

No specific recommendations.

SECTION 5. Fire fighting measures

General Fire Hazards:

No specific recommendations.

5.1 Extinguishing media

Suitable extinguishing media:

Extinguish with foam, carbon dioxide or dry powder.
Water spray.

Unsuitable extinguishing media:

None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:

For further information, refer to Section 10: "Stability and Reactivity".

5.3 Advice for firefighters

Special fire fighting procedures:

Water spray should be used to cool containers.

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

6.2 Environmental precautions



Safety data sheet

According to regulation (EC) 1907/2006, 453/2010

Revision date: February 2015

Product name: Silicone RTV 181

Page: Page 3 of 7

Environmental precautions:

Collect spillage. Do not discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up:

Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent.(cf. : § 9) Flush area with plenty of water. Incinerate in suitable combustion chamber.

6.4 Reference to other sections

For personal protection:

Caution: Contaminated surfaces may be slippery. For waste disposal, see section 13 of the MSDS.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

No specific precautions.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

No special storage precautions noted. Material is stable under normal conditions. Avoid contact with oxidizing agents. Suitable containers: polyethylene. Plastic lined steel drum.

7.3 Specific end use(s)

Specific use(s):

No specific recommendations.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits:

Quartz : When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use.

8.2 Exposure controls

Engineering measures:

No special precautions.

Personal protective equipment

General information:

No specific precautions.

Eye/face protection:

Safety Glasses

Skin protection:

Hand Protection:

Use protective gloves made of: Nitrile. Polyvinyl chloride (PVC). Rubber or plastic.

Other:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory Protection:

No specific precautions.

Hygiene measures:

Provide eyewash station and safety shower.

Environmental Controls:

No data available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Liquid

Form:

Viscous.



Safety data sheet

According to regulation (EC) 1907/2006, 453/2010

Revision date: February 2015

Product name: Silicone RTV 181

Page: Page 4 of 7

| | |
|--|---|
| Color: | white |
| Odor: | Faint |
| Odor Threshold: | no data available |
| pH: | Not applicable |
| Melting Point: | No data available. |
| Boiling Point: | No data available. |
| Flash Point: | > 200 °C (Closed cup according to method ASTM D-56.) |
| Evaporation Rate: | No data available. |
| Flammability (solid, gas): | No data available. |
| Flammability Limit - Upper (%): | No data available |
| Flammability Limit - Lower (%): | No data available |
| Vapor pressure: | No data available |
| Vapor density (air=1): | No data available. |
| Relative density: | 1,12 (20 °C) Approximate |
| Solubility(ies): | |
| Solubility in Water: | Practically Insoluble |
| Solubility (other): | Acetone: Practically Insoluble Alcohol: Practically Insoluble Diethylether: Dispersible Aliphatic hydrocarbons: Dispersible Aromatic hydrocarbons: Dispersible Chlorinated solvents: Dispersible |
| Partition coefficient (n-octanol/water): | No data available. |
| Autoignition Temperature: | > 400 °C |
| Decomposition Temperature: | No data available. |
| Viscosity: | Approximate 35 000 mm ² /s (25 °C) |
| Explosive properties: | No data available. |
| Oxidizing properties: | According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship) |
| <u>9.2 Other information:</u> | No information available |

SECTION 10. Stability and reactivity

10.1 Reactivity

Reactivity: Not relevant.

10.2 Chemical stability

Chemical stability: Stable

10.3 Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4 Conditions to avoid

Conditions to avoid: No other information noted.

10.5 Incompatible materials

Materials to avoid: Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
Amorphous silica.

SECTION 11. Toxicological information

Information on likely routes of exposure



Safety data sheet

According to regulation (EC) 1907/2006, 453/2010

Revision date: February 2015

Product name: Silicone RTV 181

Page: Page 5 of 7

Inhalation:

No effects expected (assessment based on ingredients).

Ingestion:

No effects expected (assessment based on ingredients).

Skin Contact:

No effects expected (assessment based on ingredients).

Eye contact:

No effects expected (assessment based on ingredients).

11.1 Information on toxicological effects

Acute Toxicity:

Oral:

Product:

No effects expected (assessment based on ingredients).
Not classified for acute toxicity based on available data.

Dermal:

Product:

No effects expected (assessment based on ingredients).

Inhalation:

Product:

No effects expected (assessment based on ingredients).

Repeated Dose Toxicity:

Product:

No effects expected (assessment based on ingredients).

Skin Corrosion/Irritation:

Product:

No effects expected (assessment based on ingredients).

Serious Eye Damage/Eye Irritation:

Product:

No effects expected (assessment based on ingredients).

Respiratory or Skin Sensitization:

Product:

No effects expected (assessment based on ingredients).

Germ Cell Mutagenicity:

In vitro:

Product:

No effects expected (assessment based on ingredients).

In vivo:

Product:

No effects expected (assessment based on ingredients).

Carcinogenicity:

No effects expected (assessment based on ingredients).
Product: No data available.

Reproductive Toxicity:

Product:

No effects expected (assessment based on ingredients).

Reproductive Toxicity (Fertility):

Product:

No data available.

Developmental Toxicity (Teratogenicity):

Product:

No data available.

Specific Target Organ Toxicity - Single Exposure:

Product:

No effects expected (assessment based on ingredients).

Specific Target Organ Toxicity - Repeated Exposure:

Product:

No effects expected (assessment based on ingredients).

Aspiration Hazard:

Product:

No effects expected (assessment based on ingredients).

Other Adverse Effects:

None known.

SECTION 12. Ecological information

12.1 Toxicity

Acute toxicity:

Fish:

Product:

No effects expected (assessment based on ingredients).

Aquatic Invertebrates:

Product:

No effects expected (assessment based on ingredients).

Chronic Toxicity:

Fish:



Safety data sheet

According to regulation (EC) 1907/2006, 453/2010

Revision date: February 2015

Product name: Silicone RTV 181

Page: Page 6 of 7

| | |
|---|--|
| Product: | No effects expected (assessment based on ingredients). |
| Aquatic Invertebrates: | |
| Product: | No effects expected (assessment based on ingredients). |
| Toxicity to Aquatic Plants: | |
| Product: | No effects expected (assessment based on ingredients). |
| <u>12.2 Persistence and degradability</u> | |
| Biodegradation: | |
| Product: | Not applicable |
| BOD/COD Ratio: | |
| Product: | No data available. |
| Specified substance(s): | |
| Quartz (SiO ₂) | No data available. |
| <u>12.3 Bioaccumulative potential</u> | |
| Product: | The product is not bioaccumulating. |
| <u>12.4 Mobility in soil</u> | |
| Product: | No data available |
| Known or predicted distribution to environmental compartments: | |
| Quartz (SiO ₂) | No data available. |
| <u>12.5 Results of PBT and vPvB assessment</u> | |
| Product: | None Reported |
| <u>12.6 Other adverse effects</u> | |
| Product: | None known. |

SECTION 13. Disposal considerations

13.1 Waste treatment methods

General information:

The user's attention is drawn to the possible existence of local regulations regarding disposal.

Disposal methods:

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Incinerate in suitable combustion chamber. Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

SECTION 14. Transport information

14.1 UN number

Not dangerous goods

14.2 UN proper shipping name

Not dangerous goods

14.3 Transport hazard class(es)

Not dangerous goods

14.4 Packing group

Not dangerous goods

14.5 Environmental hazards

Not dangerous goods

14.6 Special precautions for user



Safety data sheet

According to regulation (EC) 1907/2006, 453/2010

Revision date: February 2015

Product name: Silicone RTV 181

Page: Page 7 of 7

Not classified as dangerous in the meaning of transport regulations.

[14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code](#)

Not applicable for product as supplied.

SECTION 15. Regulatory information

[15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture](#)

Other regulations:

This mixture is not classified as dangerous according to Directive 1999/45/EC.

This mixture contains only ingredients which have been subject to a pre-registration according to Regulation (EC) No. 1907/2006 (REACH).

[15.2 Chemical Safety Assessment](#)

Not applicable

SECTION 16. Other information

Full text of R-Phrases

R48/20:

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Full text of H-Statements

H372:

Causes damage to organs through prolonged or repeated exposure.

Full text of other abbreviations

STOT RE:

Specific Target Organ Toxicity - Repeated Exposure

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.