

SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

Version: 4.0

Revision Date: 13.04.2011

Superseded date: 31.10.2008

**SYLGARD(R) 567 PRIMERLESS SILICONE ENCAPSULANT KIT (PART B
information is below)****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

- 1.1 Product name** : SYLGARD(R) 567 PRIMERLESS SILICONE ENCAPSULANT KIT (PART B information is below)
- 1.2 Identified uses** : Electrical and electronic applications
- Uses advised against** : None known.
- 1.3 Company** : Dow Corning Europe S.A.
rue Jules Bordet - Parc Industriel - Zone C
B-7180 Senefte
Belgium
- E-mail address (Safety Data Sheet)** : sdseu@dowcorning.com
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- 1.4 Emergency Phone Number** : Dow Corning (Barry U.K. 24h) Tel: +44 1446732350
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2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

According to EU Directives 67/548/EEC or 1999/45/EC:

Not hazardous.

2.2 Label elements**Labelling according to EEC Directive**

- Contains** : Glycidoxypropyltrimethoxysilane
- S-phrases** : S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - no smoking.
S23(V) Do not breathe vapour.
S25 Avoid contact with eyes.
S51 Use only in well-ventilated areas.

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Contains epoxy constituents. See information supplied by the manufacturer.

2.3 Other hazards

Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Silicone elastomer

According to EU Directives 67/548/EEC or 1999/45/EC:

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification	
Quartz	14808-60-7	238-878-4	-	31,0	Xn	R48/20
Glycidoxypropyltrimethoxysilane	2530-83-8	219-784-2	01-21195132 12-58	1,8	Xi	R41

According to Regulation (EC) No. 1272/2008:

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Quartz	14808-60-7	238-878-4	-	31,0	Specific target organ toxicity - repeated exposure (Inhalation - dust and mist): Category 1 (lungs) - H372
Glycidoxypropyltrimethoxysilane	2530-83-8	219-784-2	01-21195132 12-58	1,8	Serious eye damage/eye irritation: Category 1 - H318

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

CLP classifications are based on all current available data including from known international organizations. These classifications are subject to revision as more information becomes available.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures:

On contact with eyes : Flush with water. If eye irritation persists, get medical attention.

On skin contact : Flush with water.

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- If inhaled** : Remove to fresh air.
- On ingestion** : No first aid should be needed.

5. FIRE-FIGHTING MEASURES

- 5.1 Suitable extinguishing media** : On large fires use AFFF alcohol compatible foam or water spray (fog). On small fires use AFFF alcohol compatible foam, CO₂ or water spray (fog). Water can be used to cool fire exposed containers. Most fire extinguishing media will cause hydrogen release. Thus, in poorly ventilated or confined spaces, the accumulation of hydrogen may result in flash fire or explosion if ignited. Applying foam may release flammable hydrogen gas that can be trapped under the foam.
- Unsuitable extinguishing media** : Dry powder. Do not allow extinguishing medium to contact container contents.
- 5.2 Hazards during fire fighting** : None known.
- Hazardous Combustion Products** : Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Hydrogen. Quartz.
- 5.3 Special protective equipment/procedures** : A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** : Wear proper protective equipment.
- 6.2 Environmental precautions** : Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
- 6.3 Methods and materials for containment and cleaning up** : Determine the need to evacuate or isolate the area according to your local emergency plan. Very large spills should be contained by bunding, etc... procedures. Mop, wipe or soak up with absorbent material and place in a vented container. The spilled product produces an extremely slippery surface.

7. HANDLING AND STORAGE

- 7.1 Advice on safe handling** : General ventilation is required. Local ventilation is recommended. Do not breathe vapour. Do not breathe spray or mist. Do not empty into drains.
- 7.2 Advice on storage** : Keep container closed and store away from water or moisture. This product may evolve

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hydrogen on storage. Do not store in or use glass containers.

Storage temperature: minimum 0 °C, maximum 35 °C

7.3 Specific uses : Refer to technical data sheet available on request.**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1 Control parameters**

Name	CAS-No.	Exposure Limits
Quartz	14808-60-7	0,025 mg/m ³ TWA Respirable fraction
Glycidoxypropyltrimethoxysilane	2530-83-8	5 ppm (8h TWA) - 10 ppm (15 min) Dow Corning recommendation.

8.2 Exposure controls**Engineering Controls** : Ventilation : Refer to Section 7.1**Personal protection equipment**

Respiratory protection : Contact with water or humid air will form methanol. Please take into account any occupational exposure limits for methanol which are applicable in your country.

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Suitable respiratory protection should be worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded.
A suitable respirator must be worn if the product is used in any circumstances where an aerosol or mist may be generated, such as during spraying or similar activities.
Depending on the working conditions, wear a respiratory mask with filter(s) AP or use a self-contained respirator.
The choice of a filter type depends on the amount and type of chemical being handled in the workplace. Regarding filter characteristics, contact your respiratory protection supplier.

Hand protection : Gloves are not normally required.**Eye/face protection** : Safety goggles should be worn.**Skin protection** : Protective equipment is not normally necessary.**Hygiene measures** : Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

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Additional information : These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these types of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

Environmental exposure controls : Refer to section 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid

Colour : Off-White

Odour : None

Boiling point/range : > 100 °C

Flash point : 115,5 °C (Pensky-Martens Closed Cup)

Explosive properties : No
Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air.

Specific Gravity : 1,24

Viscosity : 600 cSt at 25°C.

Oxidizing properties : No

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

10.1 Reactivity : Hydrogen is liberated on contact with water, alcohols, acidic or basic materials, many metals or metallic compounds and can form explosive mixtures in air.

10.2 Stability : Stable under normal usage conditions.

10.3 Possibility of hazardous reactions : Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air.

10.4 Conditions to avoid : None established.

10.5 Materials to avoid : Can react with strong oxidising agents.

10.6 Hazardous decomposition products : Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely

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burned carbon compounds. Formaldehyde. Hydrogen. Quartz.

11. TOXICOLOGICAL INFORMATION**Acute toxicity:**

- On contact with eyes** : Slightly irritating.
- On skin contact** : No adverse effects are normally expected.
- If inhaled** : No adverse effects are normally expected.
- On ingestion** : No adverse effects are normally expected.

Chronic toxicity:

- On skin contact** : No adverse effects are normally expected.
- If inhaled** : No adverse effects are normally expected.
- On ingestion** : No adverse effects are normally expected.

**Toxicokinetics, metabolism
and distribution** : No specific information is available.

**Other Health Hazard
Information** : Human health hazards associated with quartz (silica, crystalline respirable dust) and other fibrogenic dusts arise following inhalational exposure to respirable particles. Quartz in the present formulation (uncured or cured) is not available in a respirable form.

¹ Based on product test data.

² Based on test data from similar products.

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity effects**

No adverse effects on aquatic organisms.

12.2 Persistence and degradability

Siloxanes are removed from water by sedimentation or binding to sewage sludge. In soil, siloxanes are degraded.

12.3 Bioaccumulation

No bioaccumulation potential.

12.4 Release to waters / Mobility in soil

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**SYLGARD(R) 567 PRIMERLESS SILICONE ENCAPSULANT KIT (PART B
information is below)****Fate and effects in waste water treatment plants:**

Removed > 90% by binding onto sewage sludge. No adverse effects on bacteria. The siloxanes in this product do not contribute to the BOD.

13. DISPOSAL CONSIDERATIONS

Product and packaging disposal : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

14. TRANSPORT INFORMATION**Road / Rail (ADR/RID)**

Not subject to ADR/RID.

Sea transport (IMDG)

Not subject to IMDG code.

Air transport (IATA)

Not subject to IATA regulations.

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Status**

EINECS : All ingredients listed, exempt or notified (ELINCS).

TSCA : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

AICS : All ingredients listed, exempt or notified.

IECSC : All ingredients listed or exempt.

ENCs/ISHL : All ingredients listed, exempt or notified.

KECL : All ingredients listed, exempt or notified.

PICCS : All ingredients listed, exempt or notified.

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**SYLGARD(R) 567 PRIMERLESS SILICONE ENCAPSULANT KIT (PART B
information is below)****DSL** : All ingredients listed or exempt.**16. OTHER INFORMATION**

This product safety data sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Dow Corning product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Dow Corning Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH Regulation.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Dow Corning shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Dow Corning supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements. Should you have any question, please refer to your local Dow Corning supplier.

Source of information: Internal data and publically available information

R41 Risk of serious damage to eyes., **R48/20** Harmful: danger of serious damage to health by prolonged exposure through inhalation.

H318 Causes serious eye damage.,