

SAFETY DATA SHEET

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

Version: 3.0

Revision Date: 12.08.2011

Superseded date: 19.11.2008

SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART A information is below)**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

- 1.1 Product name** : SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART A 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
- Customer Service** : English Tel: +49 611237507
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- 1.4 Emergency Phone Number** : Dow Corning (Barry U.K. 24h) Tel: +44 1446732350
Dow Corning (Wiesbaden 24h) Tel: +49 61122158
Dow Corning (Senefte 24h) Tel: +32 64 888240

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

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

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

R-phrases : R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases : S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

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SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART A information is below)**3. COMPOSITION / INFORMATION ON INGREDIENTS****Chemical characterization:** Silicone**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	-	44.0	Xn R48/20
Zinc oxide	1314-13-2	215-222-5	-	0.84	N R50/53

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	-	44.0	Specific target organ toxicity - repeated exposure (Inhalation - dust and mist): Category 1 (lungs) - H372
Zinc oxide	1314-13-2	215-222-5	-	0.84	Acute aquatic hazard: Category 1 - H400 Chronic aquatic hazard: Category 1 - H410

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

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SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART A information is below)**5. FIRE-FIGHTING MEASURES**

- 5.1 Suitable extinguishing media** : On large fires use dry chemical, foam or water spray (fog). On small fires use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers.
- Unsuitable extinguishing media** : None known.
- 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. 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** : Do not empty into drains. 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 container with a lid. The spilled product produces an extremely slippery surface.

7. HANDLING AND STORAGE

- 7.1 Advice on safe handling** : Avoid eye contact. Do not breathe spray or mist. General ventilation is recommended. Local ventilation is recommended. Do not breathe fumes. Do not empty into drains.
- 7.2 Advice on storage** : Do not store with oxidizing agents.
Storage temperature: maximum 40 °C
- 7.3 Specific uses** : Refer to technical data sheet available on request.

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SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART A information is below)**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1 Control parameters**

Name	CAS-No.	Exposure Limits
Quartz	14808-60-7	0.1 mg/m ³ TWA Respirable dust

8.2 Exposure controls

Engineering Controls : Ventilation : Refer to Section 7.1

Personal protection equipment

Respiratory protection : 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. 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.
Depending on the working conditions, wear a respiratory mask with filter(s) BP 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 glasses 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.

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 : Black

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SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART A information is below)

Odour	:	Slight
Boiling point/range	:	> 200 °C
Flash point	:	> 101.1 °C (Closed Cup)
Explosive properties	:	No
Specific Gravity	:	1.35
Viscosity	:	3000 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	:	None known.
10.2 Stability	:	Stable under normal usage conditions.
10.3 Possibility of hazardous reactions	:	None known.
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 burned carbon compounds. Formaldehyde. Quartz.

11. TOXICOLOGICAL INFORMATION**Acute toxicity:**

On contact with eyes	:	May cause temporary discomfort.
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.

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SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART A information is below)

On ingestion	:	No adverse effects are normally expected.
<u>Toxicokinetics, metabolism and distribution</u>	:	No specific information is available.
<u>Other Health Hazard Information</u>	:	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. Product may emit formaldehyde vapour at temperatures above 180°C in the presence of air. Formaldehyde vapour is a suspected carcinogen, toxic by inhalation and irritating to eyes and the respiratory system. Exposure limits should be strictly respected.

¹ Based on product test data.

² Based on test data from similar products.

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity effects**

Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

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**Fate and effects in waste water treatment plants:**

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

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.
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SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART A information is below)**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.
- KECL** : All ingredients listed, exempt or notified.
- PICCS** : All ingredients listed, exempt or notified.
- DSL** : All ingredients listed or exempt.

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SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART A information is below)**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

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation., **R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H400 Very toxic to aquatic life., **H410** Very toxic to aquatic life with long lasting effects.

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Version: 3.0
Revision Date: 02.08.2011
Superseded date: 03.04.2008**SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART B information is below)****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

- 1.1 Product name** : SYLGARD(R) 170 SILICONE ELASTOMER 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
- Customer Service** : English Tel: +49 611237507
Deutsch Tel: +49 611237500
Français Tel: +32 64511149
Italiano Tel: +32 64511170
Español Tel: +32 64511163
- Fax: +32 64888683
- 1.4 Emergency Phone Number** : Dow Corning (Barry U.K. 24h) Tel: +44 1446732350
Dow Corning (Wiesbaden 24h) Tel: +49 61122158
Dow Corning (Senefte 24h) Tel: +32 64 888240

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**

S-phrases : S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - no smoking.

2.3 Other hazards

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

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SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART B information is below)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Silicone

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	-	45.0	Xn R48/20

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	-	45.0	Specific target organ toxicity - repeated exposure (Inhalation - dust and mist): Category 1 (lungs) - H372

For the full text of the R-phrases 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** : No first aid should be needed.
- On skin contact** : No first aid should be needed.
- If inhaled** : No first aid should be needed.
- 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** : None known.

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SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART B information is below)

fighting

- 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** : Avoid eye contact. Do not breathe spray or mist. General ventilation is required. Do not empty into drains.
- 7.2 Advice on storage** : Keep container closed and store away from water or moisture. This product may evolve hydrogen on storage. Do not store in or use glass containers.
 Storage temperature: maximum 40 °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	0.1 mg/m3 TWA Respirable dust

8.2 Exposure controls

Engineering Controls : Ventilation : Refer to Section 7.1

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Superseded date: 03.04.2008

SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART B information is below)**Personal protection equipment**

- Respiratory protection** : 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) P 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 glasses 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.
- 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** : Slight
- Boiling point/range** : > 200 °C
- Flash point** : > 101.1 °C (Closed Cup)
- Explosive properties** : No
Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air.
- Specific Gravity** : 1.33
- Viscosity** : 2000 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.

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SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART B information is below)**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 burned carbon compounds. Formaldehyde. Hydrogen. Quartz.

11. TOXICOLOGICAL INFORMATION**Acute toxicity:**

- On contact with eyes** : May cause temporary discomfort.
- 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. Product may emit formaldehyde vapour at temperatures above 180°C in the presence of air. Formaldehyde vapour is a suspected carcinogen, toxic by inhalation and irritating to eyes and the respiratory system. Exposure limits should be strictly respected.

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SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART B information is below)

- 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**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.

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SYLGARD(R) 170 SILICONE ELASTOMER KIT (PART B information is below)**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.
KECL	:	All ingredients listed, exempt or notified.
PICCS	:	All ingredients listed, exempt or notified.
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.

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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

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

DOW CORNING

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