

DOW CORNING(R) 1-2577 CONFORMAL COATING

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Trade name	:	DOW CORNING(R) 1-2577 CONFORMAL COATING		
Company	:	Dow Corning S.A. Parc Industriel - Zone C B-7180 Seneffe Belgium		
Service	:	Dow Corning Central Europe	Tel: +49 6112371	Fax: +49 611237609
		Dow Corning Northern Europe	Tel: +44 1676528000	Fax: +44 1676528001
		Dow Corning Southern Europe	Tel: +33 472841360	Fax: +33 472841379
Emergency Phone Number	:	Dow Corning (Barry U.K. 24h)	Tel: +44 1446732350	
		Dow Corning (Wiesbaden 24h)	Tel: +49 61122158	
		Dow Corning (Seneffe 24h)	Tel: +32 64 888240	

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Silicone in solvent

Hazardous Ingredients:

Name	CAS-No.	EINECS/ ELINCS No.	Conc. (% w/w)	Classification	
Dimethyl, methylmethoxy, phenylmethoxy siloxane with methyl and phenyl silsesquioxanes	68952-93-2	Exempt or not available	73.0		
Toluene	108-88-3	203-625-9	22.0	Xn	R20
Trimethoxy(methyl)silane	1185-55-3	214-685-0	4.0	Xn	R22

3. HAZARDS IDENTIFICATION

The principal hazards of the product as supplied are:

Highly flammable.
Harmful by inhalation.

4. 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. Obtain medical attention.

DOW CORNING(R) 1-2577 CONFORMAL COATING

On ingestion : No first aid should be needed.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide, foam, dry powder or fine water spray. Water can be used to cool fire exposed containers.

Unsuitable extinguishing media : None known.

Hazards during fire fighting : Vapours are heavier than air and can travel along ground to remote ignition sources.

Special protective equipment/procedures : A self-contained respirator and protective clothing should be worn. Keep containers cool with water spray until well after the fire is out. Determine the need to evacuate or isolate the area according to your local emergency plan.

Hazardous Combustion Products : Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear proper protective equipment.

Precautions to protect the environment : Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

Methods for cleaning up : Determine the need to evacuate or isolate the area according to your local emergency plan. Eliminate all possible sources of ignition. 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

Advice on safe handling : Avoid skin and eye contact. Do not ingest. Local ventilation is recommended. General ventilation is required.

Advice on storage : Store in a flameproof, well ventilated area. Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed. Keep container tightly closed.

Specific uses : Refer to technical data sheet available on request.

Unsuitable packaging materials : None known.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

DOW CORNING(R) 1-2577 CONFORMAL COATING

Engineering Controls : Ventilation : Refer to Section 7

Exposure controls for hazardous components

Name	CAS-No.	Exposure Limits
Dimethyl, methylmethoxy, phenylmethoxy siloxane with methyl and phenyl silsesquioxanes	68952-93-2	200 ppm TWA, 250 ppm STEL as methanol
Toluene	108-88-3	150 ppm STEL 50 ppm TWA 574 mg/m ³ STEL 191 mg/m ³ TWA
Trimethoxy(methyl)silane	1185-55-3	200 ppm TWA, 250 ppm STEL as methanol

Personal protection equipment

- Respiratory protection** : 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.
- Hand protection** : Gloves are not normally required.
- Eye 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.
- Environmental exposure controls** : Refer to section 6 and 12.
- 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 in consumer aerosol applications, please refer to the guidance document regarding the use of silicone-based materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: Liquid **Colour:** Yellow **Odour:** Strong

Other data

DOW CORNING(R) 1-2577 CONFORMAL COATING

Boiling point/range	:	> 35C/95F
Flash point	:	5 °C (Tag Closed Cup)
Explosive properties	:	No
Specific Gravity	:	1.04
Viscosity	:	800 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

Stability	:	Stable under normal usage conditions.
Conditions to avoid	:	None established.
Materials to avoid	:	Can react with strong oxidising agents.
Hazardous decomposition products	:	See section 11.

11. TOXICOLOGICAL INFORMATION

On contact with eyes	:	May cause temporary discomfort.
On skin contact	:	No adverse effects are normally expected.
If inhaled	:	Harmful by inhalation of vapour.
On ingestion	:	No adverse effects are normally expected.
Other Health Hazard Information	:	Product may emit formaldehyde vapours at temperatures above 150°C in the presence of air. Formaldehyde vapour is harmful by inhalation and irritating to eyes and respiratory system at breathing concentration less than one part per million (1 ppm).

¹ Based on product test data.

² Based on test data from similar products.

³ This information is based either on test data, extrapolation from tests on similar materials, review of component data, or a combination of these sources.

12. ECOLOGICAL INFORMATION

Environmental fate and distribution

Organic solvents may evaporate into the atmosphere, where they degrade. Siloxanes are removed from water by sedimentation or binding to sewage sludge. In soil, siloxanes are degraded.

Ecotoxicity effects

DOW CORNING(R) 1-2577 CONFORMAL COATING

This product contains substances which may cause adverse effects in the aquatic environment.

Bioaccumulation : Low potential to bioaccumulate.

Fate and effects in waste water treatment plants

No adverse effects on bacteria are predicted. The siloxanes in this product do not contribute to the BOD.

13. DISPOSAL CONSIDERATIONS

Product disposal : Dispose of in accordance with local regulations.

Packaging disposal : Dispose of in accordance with local regulations.

DOW CORNING(R) 1-2577 CONFORMAL COATING

14. TRANSPORT INFORMATION

Road / Rail (ADR/RID)

UN No. : 1993

Proper Shipping Name : FLAMMABLE LIQUID, N.O.S. (SPECIAL PROVISION 640 D)
(Contains TOLUENE/METHOXYSILANE)

Class : 3

Packing group : II

Trem-Card : 30GF1-II

Labels : ADR DANGER LABEL MODEL NO 3

Sea transport (IMDG)

UN No. : 1993

Proper Shipping Name : FLAMMABLE LIQUID, N.O.S.
(Contains TOLUENE/METHOXYSILANE)

Class : 3

Packing group : II

Medical First Aid Guide (MFAG) : REFER TO THE EMERGENCY ACTION TABLE OF MFAG

Emergency Schedule (EmS) : 3-07

Marine pollutant : Not Applicable

Labels : FLAMMABLE LIQUID

Air transport (IATA)

UN No. : 1993

Proper Shipping Name : FLAMMABLE LIQUID, N.O.S.
(Contains TOLUENE/METHOXYSILANE)

Class : 3

Packing group : II

Labels : FLAMMABLE LIQUID

DOW CORNING(R) 1-2577 CONFORMAL COATING**15. REGULATORY INFORMATION****Labelling according to EEC Directive**

Contains	:	Toluene
Symbols	:	F Highly flammable. Xn Harmful.
R-phrases	:	R11 Highly flammable. R20 Harmful by inhalation.
S-phrases	:	S33 Take precautionary measures against static discharges. S51 Use only in well-ventilated areas. S23(S) Do not breathe spray.

National legislation / regulations

Ozone depleting chemicals : No ozone depleting chemicals are present or used in manufacture.

Status

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

16. OTHER INFORMATION

This product safety data sheet was prepared in compliance with Commission Directive 91/155/EEC, 67/548/EEC and 1999/45/EC as well as their 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 Commission Directive 1999/45/EC.

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.

R20 Harmful by inhalation., **R22** Harmful if swallowed.