

PRODUCT SAFETY DATA SHEET

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

Version: 4.1

Revision Date: 27.09.2007

DOW CORNING 200(R) FLUID, 0.65 CST.**1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

Trade name	:	DOW CORNING 200(R) FLUID, 0.65 CST.		
Company	:	Dow Corning S.A. rue Jules Bordet - 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	
E-mail address (Safety Data Sheet)	:	sdseu@dowcorning.com		
Use of the substance/preparation	:	Intermediates Cosmetics Solvents Laboratory chemicals		

2. HAZARDS IDENTIFICATION**The principal hazards of the product as supplied are:**

Highly flammable.
Very toxic to aquatic organisms.

Vapours may form explosive mixtures with air.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Silicone

Hazardous Ingredients:

Name	CAS-No.	EINECS/ ELINCS No.	Conc. (% w/w)	Classification	
Hexamethyldisiloxane	107-46-0	203-492-7	100.0	F N	R11 R50

4. FIRST AID MEASURES

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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.

5. FIRE FIGHTING MEASURES

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.
Unsuitable extinguishing media	:	None known.
Hazards during fire fighting	:	Fire burns more vigorously than would be expected. Vapours are heavier than air and can travel along ground to remote ignition sources. Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed. Vapours may form explosive mixtures with air.
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.
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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Wear proper protective equipment.
Precautions to protect the environment	:	Do not empty into drains. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. Inform local authorities if this cannot be prevented.
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.

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DOW CORNING 200(R) FLUID, 0.65 CST.**7. HANDLING AND STORAGE**

- Advice on safe handling** : General ventilation is required. Local ventilation is recommended. Do not breathe vapour. Do not breathe spray or mist. Avoid eye contact.
- 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. Vapours may form explosive mixtures with air.
- Specific uses** : Refer to technical data sheet available on request.
- Unsuitable packaging materials** : None known.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls : Ventilation : Refer to Section 7

Exposure controls for hazardous components

Name	CAS-No.	Exposure Limits
Hexamethyldisiloxane	107-46-0	200 ppm (8h TWA) Dow Corning recommendation.

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.
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) ABP 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 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.

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form: Liquid **Colour:** Colorless **Odour:** Characteristic odour

Important health, safety and environmental information

Boiling point/range : 100 °C
Melting point/range : -68 °C
Flash point : -3.3 °C (Pensky-Martens Closed Cup)
Lower flammable limits : 1.50 %
Upper flammable limits : 14.65 %
Autoignition temperature : 352 °C
Explosive properties : No
Vapours may form explosive mixtures with air.
Vapour pressure : 4.2 kPa at 20°C.
Specific Gravity : 0.76
Partition coefficient (Log n-octanol/water) : 4.76
Viscosity : 0.65 mm²/s at 25°C.
VOC content : 760 g/l
Molecular weight : 162
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.

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

11. TOXICOLOGICAL INFORMATION

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.
Other Health Hazard Information	:	Product may emit formaldehyde vapour at temperatures above 150°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

Environmental fate and distribution

Low molecular weight volatile siloxanes have very low water solubility and evaporate to air. Low molecular weight volatile siloxanes in air are degraded by reaction with hydroxyl radicals, which is the dominant degradation process for most chemicals in the atmosphere. Low molecular weight volatile siloxanes in soil are removed by several simultaneously occurring processes including volatilisation, hydrolysis, and clay-catalysed degradation. This product hydrolyses in water, releasing silanols.

Ecotoxicity effects

Very toxic to aquatic organisms.

Fish	:	<i>Oncorhynchus mykiss</i> 96 Hrs LC50 0.46 mg/L
Invertebrates	:	<i>Daphnia magna</i> 72 Hrs EC50 0.79 mg/L
Algae	:	<i>Selenastrum capricornutum</i> 96 Hrs EC50 > 0.93mg/L
Bioaccumulation	:	Low molecular weight volatile siloxanes bioconcentrate in fish exposed under controlled laboratory conditions that are not representative of conditions found in the environment.

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. Low molecular weight volatile siloxanes are efficiently removed (>90%) during wastewater treatment with approximately equal amounts going to the atmosphere and the sludge. Low molecular weight volatile siloxanes in treated wastewater effluent will be bound to particulate matter because of very low water solubility.

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DOW CORNING 200(R) FLUID, 0.65 CST.**13. DISPOSAL CONSIDERATIONS**

- Product disposal** : This material must be disposed of as hazardous waste. 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.
- Packaging disposal** : Dispose of in accordance with local regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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

- UN No.** : UN 1993
- Proper Shipping Name** : FLAMMABLE LIQUID, N.O.S.(Hexamethyldisiloxane)
- Class** : 3
- Packing group** : II
- Labels** : 3

Sea transport (IMDG)

- UN No.** : UN 1993
- Proper Shipping Name** : FLAMMABLE LIQUID, N.O.S.(Hexamethyldisiloxane)
- Class** : 3
- Packing group** : II
- Emergency Schedule (EmS)** : F-E
S-E
- Labels** : flammable liquid

Air transport (IATA)

- UN No.** : UN 1993
- Proper Shipping Name** : Flammable liquid, n.o.s.(Hexamethyldisiloxane)
- Class** : 3
- Packing group** : II

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DOW CORNING 200(R) FLUID, 0.65 CST.**Labels** : Flammable Liquid**15. REGULATORY INFORMATION****Labelling according to EEC Directive****Symbols** : F Highly flammable.
N Dangerous for the environment.**R-phrases** : R11 Highly flammable.
R50 Very toxic to aquatic organisms.**S-phrases** : S23(S) Do not breathe spray.
S33 Take precautionary measures against static discharges.
S51 Use only in well-ventilated areas.
S57 Use appropriate container to avoid environmental contamination.
S60 This material and its container must be disposed of as hazardous waste.**National legislation / regulations****Ozone depleting chemicals** : No ozone depleting chemicals are present or used in manufacture.**Status****EINECS** : All ingredients listed or exempt.**TSCA** : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

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DOW CORNING 200(R) FLUID, 0.65 CST.**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.

R11 Highly flammable., **R50** Very toxic to aquatic organisms.