

## SAFETY DATA SHEET

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

Version: 3.0

Revision Date: 24.10.2011

Superseded date: 06.05.2010

## DOW CORNING(R) OS-2 SILICONE CLEANER &amp; SOLVENT

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

<b>1.1 Product name</b>	: DOW CORNING(R) OS-2 SILICONE CLEANER & SOLVENT		
<b>1.2 Identified uses</b>	: Solvents Cleaning / washing agents and additives		
<b>Uses advised against</b>	: None known.		
<b>1.3 Company</b>	: Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe Belgium		
<b>E-mail address (Safety Data Sheet)</b>	: sdseu@dowcorning.com		
<b>Customer Service</b>	: English	Tel: +49 611237507	
	Deutsch	Tel: +49 611237500	
	Français	Tel: +32 64511149	
	Italiano	Tel: +32 64511170	
	Español	Tel: +32 64511163	
		Fax: +32 64888683	
<b>1.4 Emergency Phone Number</b>	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. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

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

R11 Highly flammable.

R50 Very toxic to aquatic organisms.

## 2.2 Label elements

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.  
S23(V) Do not breathe vapour.  
S33 Take precautionary measures against static discharges.  
S51 Use only in well-ventilated areas.

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S57 Use appropriate container to avoid environmental contamination.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

## 2.3 Other hazards

Vapours may form explosive mixtures with air.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Methyl Siloxane

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

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Hexamethyldisiloxane	107-46-0	203-492-7	01-21194961 08-31	65.0	F N R11 R50
Octamethyltrisiloxane	107-51-7	203-497-4	-	35.0	R10

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

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Hexamethyldisiloxane	107-46-0	203-492-7	01-21194961 08-31	65.0	Flammable liquid: Category 2 - H225 Acute aquatic hazard: Category 1 - H400
Octamethyltrisiloxane	107-51-7	203-497-4	-	35.0	Flammable liquid: Category 3 - H226

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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## 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, CO<sub>2</sub> or water spray (fog). Water can be used to cool fire exposed containers.

**Unsuitable extinguishing media** : None known.

**5.2 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.

**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.

**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** : 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. Eliminate all possible sources of ignition.

**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. Inform local authorities if this cannot be prevented.

**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. 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

**7.1 Advice on safe handling** : General ventilation is required. Local ventilation is recommended. Avoid eye contact. Do not breathe vapour. Do not breathe spray or mist. Do not empty into drains.

**7.2 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. Storage temperature: maximum 43 °C

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**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
Hexamethyldisiloxane	107-46-0	200 ppm (8h TWA) Dow Corning recommendation.
Octamethyltrisiloxane	107-51-7	200 ppm (8h TWA) Dow Corning recommendation.

## 8.2 Exposure controls

**Engineering Controls** : Ventilation : Refer to Section 7.1

**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) 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 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](http://www.SEHSC.com)) or contact the Dow Corning customer service group.

**Environmental exposure controls** : Refer to section 6 and 12.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	: Liquid
<b>Colour</b>	: Colorless
<b>Odour</b>	: Slight
<b>Boiling point/range</b>	: 110 °C
<b>Flash point</b>	: -3 °C (Closed Cup)
<b>Lower flammable limits</b>	: 0.9 %
<b>Upper flammable limits</b>	: 13.8 %
<b>Autoignition temperature</b>	: 350 °C
<b>Explosive properties</b>	: No Vapours may form explosive mixtures with air.
<b>Specific Gravity</b>	: 0.78
<b>Viscosity</b>	: 0.75 mm <sup>2</sup> /s at 25°C.
<b>Oxidizing properties</b>	: No

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

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	: None known.
<b>10.2 Stability</b>	: Stable under normal usage conditions.
<b>10.3 Possibility of hazardous reactions</b>	: None known.
<b>10.4 Conditions to avoid</b>	: Eliminate all possible sources of ignition.
<b>10.5 Materials to avoid</b>	: Can react with strong oxidising agents.
<b>10.6 Hazardous decomposition products</b>	: 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

Acute toxicity:

<b>On contact with eyes</b>	: May cause temporary discomfort.
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**On skin contact** : No adverse effects are normally expected.

**If inhaled** : Inhalation of large amount may be harmful.

**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.

<sup>1</sup> Based on product test data.

<sup>2</sup> Based on test data from similar products.

**12. ECOLOGICAL INFORMATION****12.1 Ecotoxicity effects**

Very toxic to aquatic organisms.

**12.2 Persistence and degradability**

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.

**12.3 Bioaccumulation**

Low molecular weight volatile siloxanes bioconcentrate in fish exposed under controlled laboratory conditions that are not representative of conditions found in the environment.

**12.4 Release to waters / Mobility in soil****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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## 13. DISPOSAL CONSIDERATIONS

**Product and packaging disposal** : This material must be disposed of as hazardous waste. 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)

**UN No.** : UN 1993

**Proper Shipping Name** : FLAMMABLE LIQUID, N.O.S.(Hexamethyldisiloxane / Octamethyltrisiloxane)

**Class** : 3

**Packing group** : II

**Labels** : 3

Sea transport (IMDG)

**UN No.** : UN 1993

**Proper Shipping Name** : FLAMMABLE LIQUID, N.O.S.(Hexamethyldisiloxane / Octamethyltrisiloxane)

**Class** : 3

**Packing group** : II

**Emergency Schedule (EmS)** : F-E  
S-E

**Marine pollutant** : Hexamethyldisiloxane

**Labels** : flammable liquid

Air transport (IATA)

**UN No.** : UN 1993

**Proper Shipping Name** : Flammable liquid, n.o.s.(Hexamethyldisiloxane / Octamethyltrisiloxane)

**Class** : 3

**Packing group** : II

**Labels** : Flammable Liquid

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## 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.**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.

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

**R10** Flammable., **R11** Highly flammable., **R50** Very toxic to aquatic organisms.

**H225** Highly flammable liquid and vapour., **H226** Flammable liquid and vapour., **H400** Very toxic to aquatic life.

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