

DOW CORNING 200(R) FLUID, 350 CST.

[This MSDS is prepared pursuant to the provision of Article 41 of the Industrial Safety and Health Law]

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product Name:	DOW CORNING 200(R) FLUID, 350 CST.
1.2 Manufacturer's Product Code:	01013211
1.3 Chemical Classification:	Silicone
1.4 Hazard Classification:	Not hazardous.
1.5 Use:	Intermediate for Dow Corning Internal Use. Diluent Intermediate for siloxane manufacture General purpose Processing aid
1.6 Company Details:	
Manufacturer/Supplier:	Dow Corning Korea Ltd.
Address:	690-1 Kwanghaewon-ri, Kwanghaewon-myon, Jinchon-kun, Chungbuk, Korea
Telephone Number:	043-539-1114
Emergency Telephone Number:	043-539-1129
Contact Department:	Environmental Health & Safety Team
Contact Person:	Environmental Health & Safety Team Manager
Preparation Department:	Environmental Health & Safety Team

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS No.</u>	<u>% (w/w)</u>	<u>Classification, Risk and Safety Phrases</u>
Polydimethylsiloxane	63148-62-9	> 60	Not hazardous.

3. HAZARDS IDENTIFICATION

3.1 Emergency Risk and Hazard Information:

Not hazardous.

3.2 Possible Health Effects:

Acute

Eyes:	Direct contact may cause temporary redness and discomfort.
Skin:	No significant irritation expected from a single short-term exposure.
Inhalation:	No significant effects expected from a single short-term exposure.
Ingestion:	Low ingestion hazard in normal use.

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Chronic

Skin:	No known applicable information.
Inhalation:	No known applicable information.
Ingestion:	Repeated ingestion or swallowing large amounts may injure internally.
3.3 Signs and Symptoms of Overexposure:	No significant adverse effects from a single exposure expected from normal use.

4. FIRST AID MEASURES

4.1 Eyes:	Immediately flush with water.
4.2 Skin:	No first aid should be needed.
4.3 Inhalation:	No first aid should be needed.
4.4 Ingestion:	Get medical attention.
4.5 Comments:	Treat symptomatically.
4.6 Note to physicians:	Treat symptomatically. For further information, the medical practitioner should contact Dow Corning Korea Ltd.

5. FIRE FIGHTING MEASURES

5.1 Flash Point:	> 101.1 °C (Closed Cup)
5.2 Autoignition Temperature:	Not determined.
5.3 Lower Flammability Limit:	Not determined.
5.4 Upper Flammability Limit:	Not determined.
5.5 Fire Service Law Classification:	To be assessed.
5.6 Extinguishing Media:	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO ₂), dry chemical or water spray. Water can be used to cool fire exposed containers.
5.7 Special Fire Fighting Procedures and Equipment:	Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool. Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.
5.8 Hazardous Combustion Products:	Silicon dioxide. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.
5.9 Unsuitable Extinguishing Media:	None established.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:	Avoid eye contact. Do not take internally.
6.2 Environmental Precautions:	Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

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- 6.3 Methods for Cleaning up:** Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protective equipment recommendations described in this MSDS. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbant. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which laws and regulations are applicable.

7. HANDLING AND STORAGE

- 7.1 Handling Precautions:** Use with adequate ventilation. Avoid eye contact. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
- 7.2 Storage Conditions:** Use reasonable care and store away from oxidizing materials.

8. PREVENTIVE MEASURES/PERSONAL PROTECTIVE EQUIPMENT

- 8.1 Engineering Controls**
- Local Ventilation:** None should be needed.
General Ventilation: Recommended.
- 8.2 Personal Protective Equipment for Routine Handling:**
- Respiratory protection:** No respiratory protection should be needed.
Suitable Respirator: None should be needed.
Eye protection: Use proper protection - safety glasses as a minimum.
Hand protection: No special protection needed.
Skin protection: Washing at mealtime and end of shift is adequate.
Hygiene Measures: Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
- 8.3 Personal Protective Equipment for Spills:**
- Respiratory protection:** No respiratory protection should be needed.
Eye protection: Use proper protection - safety glasses as a minimum.

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Skin protection:	Washing at mealtime and end of shift is adequate.
Precautionary Measures:	Avoid eye contact. Do not take internally. Use reasonable care.
Comments:	If this product is heated to > 150 degrees C, trace quantities of formaldehyde may be released, and adequate ventilation is required

8.4 Industrial Hygiene Standards:

<u>Ingredients</u>	<u>CAS No.</u>	<u>Exposure Limits</u>
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None known.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry (SEHSC) or contact the Dow Corning customer service group.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Form:	Liquid
9.2 Colour:	Colorless
9.3 Odour:	Characteristic odor
9.4 pH:	Not determined.
9.5 Solubility in Water:	Not determined.
9.6 Boiling Point:	> 65 °C
9.7 Melting Point:	Not determined.
9.8 Explosive properties:	No
9.9 Oxidizing properties:	No
9.10 Vapor Pressure @ 25°C:	Not determined.
9.11 Specific Gravity:	0.97
9.12 Octanol/water partition coefficient:	Not determined.
9.13 Vapour Density (air=1):	Not determined.
9.14 Viscosity:	350 cSt
9.15 Molecular Weight:	Not determined.

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

10. STABILITY AND REACTIVITY

10.1 Stability:	Stable.
10.2 Reactivity	
Conditions to avoid:	None.
Materials to avoid:	Can react with strong oxidising agents.
Hazardous Decomposition Products:	Silicon dioxide. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

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Hazardous Polymerization :	Hazardous polymerization will not occur.
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11. TOXICOLOGICAL INFORMATION

11.1 Acute Oral Toxicity:	Refer to section 3.2.
11.2 Acute Dermal Toxicity:	Refer to section 3.2.
11.3 Acute Inhalation Toxicity:	Refer to section 3.2.
11.4 Sub-Acute:	No known applicable information.
11.5 Chronic Effects:	Refer to section 3.2.
11.6 Mutagenic Effects:	None known.
11.7 Reproductive Effects:	None known.
11.8 Carcinogenic Effects:	None known.
11.9 Other Health Hazard Information:	No known applicable information.

12. EFFECTS ON THE ENVIRONMENT

12.1 Environmental Fate and Distribution:	Siloxanes are removed from water by sedimentation or binding to sewage sludge. In soil, siloxanes are degraded.
12.2 Environmental Effects:	No adverse effects on aquatic organisms.
Bioaccumulation:	No bioaccumulation potential.
12.3 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.
12.4 Additional Environmental Information:	
Degradation:	Additional environmental information on the silicone component is available on request.

13. DISPOSAL CONSIDERATIONS

13.1 Regulatory status under the Waste Management Law:	Product should be disposed of in accordance with Waste Management Law Article 12.
13.2 Product Disposal:	Dispose of in accordance with local regulations.
13.3 Packaging Disposal:	Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1 Sea transport (IMDG):	Not subject to IMDG code.
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14.2 Transportation Precautions:

Transport in accordance with the relevant regulations. Refer to section 7.2 for further information on transportation requirements. Refer to section 6 for the safety measures to be taken in the event of accidental release.

14.3 Other International Transportation Regulations**Air Transport (IATA-DGR):**

Not subject to IATA regulations.

15. REGULATORY INFORMATION**15.1 Classification and labelling in accordance with Industrial Safety and Health Law:**

Classification: Not hazardous.

S-phrases: Avoid contact with eyes.

15.2 Toxic Chemicals Control Act and Other Chemicals Management Regulations:**Chemicals controlled in accordance with Toxic Chemicals Control Law****Toxic Chemicals:**

No subject chemicals

Observational Chemicals:

No subject chemicals

Prohibited Chemicals:

No subject chemicals

Restricted Toxic Chemicals:

No subject chemicals

Korean TRI Chemicals:

No subject chemicals

15.3 Other International Regulations:**Chemical Inventories:**

MITI: All components are listed on ENCS or its exempt rule.

EINECS: All ingredients listed or exempt.

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IECSC:	All ingredients listed or exempt.
DSL:	All chemical substances in this material are included on or exempted from the DSL.
AICS:	All ingredients listed or exempt.
KECL:	All ingredients listed, exempt or notified.
TSCA:	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
PICCS:	All ingredients listed or exempt.

16. OTHER INFORMATION

Information Source: Dow Corning Corporation
Prepared by: Dow Corning Korea Ltd.

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

(R) indicates Registered Trademark