

XIAMETER(R) Material Safety Data Sheet

XIAMETER(R) RTV-3481 BASE (BASE information is below)

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1	Product Name:	XIAMETER(R) RTV-3481 BASE (BASE information is below)		
1.2	Product Code:	04107634		
1.3	Chemical Classification:	Silicone elastomer		
1.4	Recommended Product Usage and Limited Use:	Silicone rubber base		
1.5	Company Details			
	Manufacturer/Supplier:	Dow Corning (China) Holding Company Limited		
	Address:	1077 Zhangheng Road, Zhangjiang Hi-Tech Park, Shanghai, P.R.C, Postal Code: 201203		
	Telephone Number:	(86 21)38995200 ext. 2	Fax Number:	(86 21) 50796571
	Email Address:	asia.tech@xiameter.com		
	Emergency Telephone Number:	(86 512) 56732049		
1.6	First Issuing Date:	2011/09/16		

2. HAZARD IDENTIFICATION

2.1	Hazard Classification:	Not hazardous.		
2.2	Label Elements Including Precautionary Statements			
	Symbol:	None.		
	Signal Word:	None.		
	Hazard Risk Statement:	Not hazardous.		
	Precautionary Statement:	Avoid contact with skin and eyes. In case of fire and/or explosion do not breathe fumes. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water.		
2.3	Other Hazard:	None known.		

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1	Chemical characterization:	Mixture		
3.2	Hazardous Ingredients			
	<u>Chemical Name</u>	<u>CAS No.</u>	<u>% (w/w)</u>	
	Trimethylated silica	68909-20-6	10 - <30	
	Zircon	14940-68-2	10 - <30	
	Octamethylcyclotetrasiloxane	556-67-2	<1	

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4. FIRST AID MEASURES

4.1 First Aid Measures

Eyes:	Immediately flush with water.
Skin:	No first aid should be needed.
Inhalation:	No first aid should be needed.
Oral:	Get medical attention.
Comments:	Treat symptomatically.

4.2 Important Symptoms and Hazard Effects: No significant adverse effects from normal use.

4.3 Personal Protection for First Aid or Rescue Personnel

Respiratory Protection:	No respiratory protection should be needed.
Eye Protection:	Use proper protection - safety glasses as a minimum.
Skin Protection:	Washing at mealtime and end of shift is adequate.

4.4 Note to physicians: Treat symptomatically. For further information, the Medical Practitioner should refer to the phone number in Section 1.

5. FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers.

5.2 Unsuitable Extinguishing Media: None established.

5.3 Specific Hazards: None.

5.4 Special Fire Fighting Procedures: Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

5.5 Special protective equipment for the Fire Fighters: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.

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.

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

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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

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| 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. |
| 7.3 Unsuitable Packaging Materials: | None established. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Industrial Hygiene Standards:

<u>Ingredients</u>	<u>CAS No.</u>	<u>Exposure Limits</u>
Trimethylated silica	68909-20-6	Dow Corning guide: 5 mg/m ³ Ceiling (as dust).
Zircon	14940-68-2	China: TWA 5 mg/m ³ as Zr. STEL 10 mg/m ³ as Zr. Observe zirconium compounds limits. OSHA PEL (final rule) and ACGIH TLV: TWA 5 mg/m ³ ; STEL 10 mg/m ³ .
Octamethylcyclotetrasiloxane	556-67-2	Dow Corning guide: TWA 10 ppm.

8.2 Engineering Controls

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|-----------------------------|------------------------|
| Local Ventilation: | None should be needed. |
| General Ventilation: | Recommended. |

8.3 Personal Protective Equipment for Routine Handling

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|--------------------------------|--|
| 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. |

8.4 Personal Protective Equipment for Spills

- | | |
|--------------------------------|---|
| Respiratory protection: | No respiratory protection should be needed. |
| Eye protection: | Use proper protection - safety glasses as a minimum. |
| Skin protection: | Washing at mealtime and end of shift is adequate. |
| Precautionary Measures: | Avoid eye contact. Do not take internally. Use reasonable care. |

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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 (www.SEHSC.com) or contact the Dow Corning customer service group.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Physical Form:	Viscous Liquid
9.2	Color:	Off-White
9.3	Odor:	Odorless
9.4	pH:	Not determined.
9.5	Melting Point:	Not determined.
9.6	Boiling point/range:	> 65 °C
9.7	Flash Point:	> 100 °C(Closed Cup)
9.8	Explosive Limit:	Not determined.
9.9	Vapor Pressure @ 25°C:	Not determined.
9.10	Vapour Density (air=1):	Not determined.
9.11	Specific Gravity:	1.213 g/cm ³
9.12	Water Solubility:	Not determined.
9.13	Partition Coefficient (n-Octanol/Water):	Not determined.
9.14	Autoignition temperature:	Not determined.
9.15	Decomposition Temperature :	Not determined.
9.16	Odor Threshold:	Not determined.
9.17	Evaporation Rate:	Not determined.
9.18	Flammability (Solid, Gas):	Not applicable.

The above information is not intended for use in preparing product specifications.

10. STABILITY AND REACTIVITY

10.1	Stability:	Stable.
10.2	Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
10.3	Conditions to Avoid:	None.
10.4	Materials to Avoid:	Can react with strong oxidising agents.

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10.5 Hazardous Decomposition Products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde. Metal oxides. Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Route of Exposure: Inhalation, skin contact and accidental ingestion.

11.2 Signs and Symptoms of Overexposure: No significant adverse effects from normal use.

11.3 Acute Toxicity:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>LD50 (Oral)</u>	<u>LD50 (Dermal)</u>	<u>LC50 (Inhalation)</u>
Trimethylated silica	68909-20-6	> 5,000 mg/kg (Rat)	-	-
Octamethylcyclotetrasiloxane	556-67-2	> 4,800 mg/kg (Rat)	> 2.5 ML/KG (Rabbit)	2975 PPM (Rat; 4hr vapor)

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

11.4 Chronic Toxicity

Skin: No known applicable information.
Ingestion: Repeated ingestion or swallowing large amounts may injure internally.
Inhalation: No known applicable information.

11.5 Other Health Hazard Information: Inhalation of fumes may result in metal fume fever, a flu-like illness with symptoms of metallic taste, fever and chills, aches, chest tightness, and cough.

The above listed potential effects of overexposure are based on actual data, the results of studies performed upon similar compositions, component data, and/or expert review of the products.

12. ECOLOGICAL INFORMATION

12.1 Aquatic and Terrestrial Ecotoxicity

Ecotoxicity Effects:

Acute: No adverse effects on aquatic organisms.
Chronic: No adverse effects on aquatic organisms.

Fate and Effects in Waste Water Treatment Plants: No adverse effects on bacteria. Removed > 90% by binding onto sewage sludge. The siloxanes in this product do not contribute to the BOD.

12.2 Persistence and Degradability

Degradation: In soil, siloxanes are degraded.

12.3 Bioaccumulative Potential

Bioaccumulation: No bioaccumulation potential.

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- 12.4 Mobility in Soil:** Siloxanes are removed from water by sedimentation or binding to sewage sludge.
- 12.5 Additional Environmental Information:** Additional environmental information on the silicone component is available on request.

13. DISPOSAL CONSIDERATIONS

- 13.1 Product Disposal:** Dispose of in accordance with local regulations.
- 13.2 Packaging Disposal:** Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

- 14.1 Road and Rail Transport**
Not applicable.
- 14.2 Sea Transport (IMDG)**
Not subject to IMDG code.
- 14.3 Air Transport (IATA)**
Not subject to IATA regulations.
- 14.4 Special Requirements and Additional Information :** None.

15. REGULATORY INFORMATION

- 15.1 Applicable Laws:** Provisions of the Regulations for the Safe Handling of Chemicals in the Workplace
General rule for classification and hazard communication of chemicals [GB 13690-2009]
- 15.2 Chemical Inventories**
- 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.
- AICS:** All ingredients listed or exempt.
- IECSC:** All ingredients listed or exempt.
- ENCS/ISHL:** All components are listed on ENCS/ISHL or its exempt rule.
- KECL:** All ingredients listed, exempt or notified.
- PICCS:** All ingredients listed or exempt.
- DSL:** All chemical substances in this material are included on or exempted from the DSL.
- HSNO:** All ingredients listed or exempt.

16. OTHER INFORMATION

- 16.1 Contact Point:** Technical Information Center (86 21)38995200 ext. 2

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16.2 Prepared by: Dow Corning (China) Holding Company Limited

Legend:

- No specific information available

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.

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<http://www.xiameter.com>