

**Dow Corning Silicone Trading (Shanghai) Co., Ltd.
Material Safety Data Sheet**Page No.: 1/6
Version No. 1.0
Revision Date: 28.08.2008**DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT
BLACK****1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY**

- 1.1 Product Name:** DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT BLACK
- 1.2 Manufacturer's Product Code:** 04025096
- 1.3 Chemical Classification:** Silicone elastomer
- 1.4 Dangerous Goods Classification:** Not applicable.
- 1.5 Company Details:**
- Manufacturer/Supplier:** Dow Corning Silicone Trading (Shanghai) Co., Ltd.
Address: No.268, De Lin Road, WaiGaoQiao Free Trade Zone, Shanghai 200131, China
Telephone Number: (86 21)37747110 **Fax Number:** (86 21) 57741162
Emergency Telephone Number: (86 21) 37741000
Contact Person: Environment, Health and Safety Manager

2. COMPOSITION / INFORMATION ON INGREDIENTS

- 2.1 Chemical characterization:** Mixture
2.2 Physical Form: Paste
2.3 Color: Black
2.4 Use: Sealant
2.5 Hazardous Ingredients*:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>% (w/w)</u>	<u>Symbols & Health Risk Phrases</u>
Methyltrimethoxysilane	1185-55-3	<10	Highly flammable. Harmful. Highly flammable. Harmful if swallowed.

*According to European Commission Directive 1999/45/EC (Article 3 [3])

3. HAZARDS IDENTIFICATION

- 3.1 Overall Hazard Classification:** Not hazardous.
- 3.2 Hazard Information:** Not hazardous.
Avoid contact with skin and eyes.
Use only in well-ventilated areas.
- 3.3 Route of Exposure:** Skin contact and accidental ingestion.
- 3.4 Possible Health Effects:**
- Acute**
- Eyes:** Direct contact may cause mild irritation.
Skin: No significant irritation expected from a single short-term exposure.

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Inhalation: Irritates respiratory passages very slightly. Vapor overexposure may cause drowsiness.
Ingestion: Low ingestion hazard in normal use.

Chronic

Skin: Repeated or prolonged exposure may cause irritation.
Inhalation: Prolonged or repeated exposure by inhalation may injure internally.
Ingestion: Repeated ingestion or swallowing large amounts may injure internally.

3.5 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 for 15 minutes.
4.2 Skin: No first aid should be needed.
4.3 Inhalation: Remove to fresh air. Get medical attention if ill effects persist.
4.4 Ingestion: Get medical attention.
4.5 Comments: Treat according to person's condition and specifics of exposure.
4.6 Note to physicians: Treat symptomatically. For further information, the medical practitioner should contact Dow Corning Silicone Trading (Shanghai) Co., Ltd.

5. FIRE FIGHTING MEASURES

5.1 Flammability: Non-flammable.
5.2 Flash Point: > 100 °C (Closed Cup)
5.3 Autoignition temperature: Not determined.
5.4 Lower Flammability Limit: Not determined.
5.5 Upper Flammability Limit: Not determined.
5.6 Hazardous Properties: None.
5.7 Extinguishing Media: On large fires use dry chemical or foam. On small fires use CO₂ or dry chemical. Water can be used to cool fire exposed containers.
5.8 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.
5.9 Hazardous Combustion Products: Metal oxides. Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde. Nitrogen oxides. Chlorine compounds. Sulfur oxides.
5.10 Unsuitable Extinguishing Media: Water. Do not allow extinguishing medium to contact container contents.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Avoid eye contact. Avoid breathing vapor. Keep container closed. Do not take internally.

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- 6.2 Environmental Precautions:** Do not allow large quantities to enter drains or surface waters.
- 6.3 Methods for Cleaning up:** Observe all personal protective equipment recommendations described in this MSDS. If diked material can be pumped, store recovered material in appropriate container. Wipe up or scrape up and contain for salvage or disposal. 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. Product evolves flammable methyl alcohol when exposed to water or humid air. Provide ventilation during use to control methyl alcohol exposures within exposure guidelines or use air-supplied or self-contained breathing apparatus. Avoid eye contact. Avoid breathing vapor. Keep container closed. 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. Keep container closed and store away from water or moisture.
- 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> |
|------------------------|----------------|------------------------------------------------------------------|
| Methyltrimethoxysilane | 1185-55-3 | Dow Corning guide: TWA 50 ppm. Also see methyl alcohol comments. |
- Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm.
- 8.2 Engineering Controls**
- Local Ventilation:** Recommended.
General Ventilation: Recommended.
- 8.3 Personal Protective Equipment for Routine Handling**
- Respiratory protection:** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.
- Suitable Respirator:** Organic Vapor Type.

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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:	Use self-contained breathing apparatus (SCBA) or other supplied-air respirator.
Eye protection:	Use full face respirator.
Skin protection:	Washing at mealtime and end of shift is adequate.
Precautionary Measures:	Avoid eye contact. Avoid breathing vapor. Keep container closed. Do not take internally. Use reasonable care.
Comments:	Product evolves flammable methyl alcohol when exposed to water or humid air. Provide ventilation during use to control methyl alcohol exposures within exposure guidelines or use air-supplied or self-contained breathing apparatus.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Form:	Paste
9.2 Color:	Black
9.3 Odor:	Odorless
9.4 pH:	Not determined.
9.5 Solubility in Water:	Not determined.
9.6 Boiling Point:	Not determined.
9.7 Melting Point:	Not determined.
9.8 Flash Point:	> 100 °C (Closed Cup)
9.9 Autoignition temperature:	Not determined.
9.10 Explosive properties:	No
9.11 Oxidizing properties:	No
9.12 Vapor Pressure @ 25°C:	Not determined.
9.13 Specific Gravity:	1.47
9.14 Octanol/water partition coefficient:	Not determined.
9.15 Vapour Density (air=1):	Not determined.
9.16 Viscosity:	Not determined.
9.17 Molecular Weight:	Not determined.

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

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- 10.1 Stability:** Stable.
- 10.2 Reactivity**
- Conditions to Avoid:** None.
- Materials to Avoid:** Can react with strong oxidising agents. Water, moisture or humid air can cause hazardous vapors to form.
- Hazardous Decomposition Products:** Metal oxides. Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde. Nitrogen oxides. Chlorine compounds. Sulfur oxides.
- Hazardous Polymerization:** Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

- 11.1 Possible Health Effects:** Refer to Section 3.4
- 11.2 Sensitizing Effects:** None known.
- 11.3 Mutagenic Effects:** None known.
- 11.4 Reproductive Effects:** None known.
- 11.5 Carcinogenic Effects:** None known.
- 11.6 Other Health Hazard Information:** No known applicable information.

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 Environmental Fate and Distribution:**
- Solid material, insoluble in water. No adverse effects are predicted.
- 12.2 Environmental Effects:**
- No adverse effects on aquatic organisms are predicted.
- Bioaccumulation:** No bioaccumulation potential.
- 12.3 Fate and Effects in Waste Water Treatment Plants:**
- No adverse effects on bacteria are predicted.

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.

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BLACK****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.

15. REGULATORY INFORMATION**15.1 Applicable Laws:**

Provisions of the Regulations for the Safe Handling of Chemicals in the Workplace, particularly those relating to the safe use, production, storage and transportation of dangerous chemicals.

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.
HSNO:	All ingredients listed or exempt.
PICCS:	All ingredients listed or exempt.
DSL:	All chemical substances in this material are included on or exempted from the DSL.
KECL:	Not determined.
MITI:	Not determined.

16. OTHER INFORMATION

Contact Point: Technical Information Center (86 21)37747110
Prepared by: Dow Corning Silicone Trading (Shanghai) Co., 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.

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