

**DOW CORNING CORPORATION  
Material Safety Data Sheet****DOW CORNING(R) CONSTRUCTION PRIMER P****1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

MSDS No.: 03282261

Revision Date: 2004/06/24

**SUPPLIER:**Dow Corning Canada Inc.  
15-6400 Millcreek Drive, Suite 416  
Mississauga, ON L5N 3E7  
Canada

Product Information: (800) 248-2481

Product Safety: (888) 335-1331

CANUTEC: (613) 996-6666

**MANUFACTURER:**

24 Hour Emergency Telephone: (989) 496-5900

Dow Corning Corporation  
South Saginaw Road  
Midland, Michigan 48686**WHMIS CLASSIFICATION:** Class B, Division 2.  
Class D, Division 2, Subdivision A.  
Class D, Division 2, Subdivision B.**Material Usage:** Surface primer**2. COMPOSITION / INFORMATION ON INGREDIENTS**

| <u>CAS Number</u> | <u>Wt %</u> | <u>Component Name</u>  |
|-------------------|-------------|------------------------|
| 108-88-3          | 40.0 - 70.0 | Toluene                |
| 71-36-3           | 3.0 - 7.0   | n-Butyl alcohol        |
| 1185-55-3         | 3.0 - 7.0   | Methyltrimethoxysilane |

The ingredients listed above are controlled products as defined in CPR, am. SOR/88-555.

**3. EFFECTS OF OVEREXPOSURE****EMERGENCY OVERVIEW****Generic Description:** Organosilane solution**Physical Form:** Liquid**Colour:** Colorless**Odour:** Aromatic odour**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.**

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**POTENTIAL HEALTH EFFECTS**

**DOW CORNING(R) CONSTRUCTION PRIMER P**Acute Effects

- Eye: Direct contact may cause severe irritation.
- Skin: No significant irritation expected from a single short-term exposure.
- Inhalation: Vapor may irritate nose and throat. Overexposure by inhalation may cause drowsiness, dizziness, confusion or loss of coordination.
- Oral: Aspiration of liquid while vomiting may injure lungs seriously. Overexposure by ingestion may cause effects similar to those listed under repeated exposure.

Prolonged/Repeated Exposure Effects

- Skin: Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis.
- Inhalation: Overexposure by inhalation may injure the following organ(s):Nervous system. Kidneys. Liver. Blood. Lungs.
- Oral: Product generates methyl alcohol which may cause blindness and possibly death if swallowed.

Signs and Symptoms of Overexposure

No known applicable information.

Medical Conditions Aggravated by Exposure

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

**4. FIRST AID MEASURES**

- Eye: Immediately flush with water for 15 minutes. Get medical attention.
- Skin: Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.
- Inhalation: Remove to fresh air. Get medical attention if ill effects persist.
- Oral: Get immediate medical attention. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.
- Comments: Treat according to person's condition and specifics of exposure.

**5. FIRE FIGHTING MEASURES**

- Flash Point: 46.4 °F / 8 °C (Closed Cup)

**DOW CORNING(R) CONSTRUCTION PRIMER P**

Autoignition Temperature: Not available.

Flammability Limits in Air: Not available.

Extinguishing Media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers.

Fire Fighting Measures: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual Fire Hazards: Vapors are heavier than air and may travel to a source of ignition and flash back. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Acrylic monomers. Silicon dioxide. Formaldehyde.

**6. ACCIDENTAL RELEASE MEASURES**

Containment/Clean up: Remove possible ignition sources. Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. 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. Local, provincial, federal 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.

Note: See section 8 for Personal Protective Equipment for Spills. Call Dow Corning Corporation, (989) 496-5900, if additional information is required.

**7. HANDLING AND STORAGE**

Use with adequate ventilation. Product evolves flammable methyl alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within Section 8 guidelines or use air-supplied or self-contained breathing apparatus. Avoid eye contact. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally.

Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks, and flame. Keep container closed and store away from water or moisture.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**DOW CORNING(R) CONSTRUCTION PRIMER P****Component Exposure Limits**

Consult local authorities for acceptable provincial values.

| <u>CAS Number</u> | <u>Component Name</u>  | <u>Exposure Limits</u>  |
|-------------------|------------------------|---|
| 108-88-3          | Toluene                | OSHA PEL (final rule): 8-Hour TWA 200 ppm, Ceiling 300 ppm, 10 minutes maximum duration 500 ppm.<br>ACGIH TLV-skin: TWA 50 ppm.<br>LC50: 49 g/m <sup>3</sup> - Inhalation Rat ; 4 Hrs<br>LD50: 636 mg/kg - Oral Rat |
| 71-36-3           | n-Butyl alcohol        | OSHA PEL (final rule): TWA 100 ppm, 300 mg/m <sup>3</sup> .<br>ACGIH TLV: TWA 20 ppm.<br>LC50: 8000 ppm - Inhalation Rat; 4 Hrs<br>LD50: 790 mg/kg - Oral Rat   |
| 1185-55-3         | Methyltrimethoxysilane | Dow Corning guide: TWA 50 ppm. Also see methyl alcohol comments.<br>LD50: 12,500 mg/kg - Oral Rat   |

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.

**Engineering Controls**

Local Ventilation: Recommended.  
General Ventilation: Recommended.

**Personal Protective Equipment for Routine Handling**

Eyes: Use chemical worker's goggles.

Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Suitable Gloves: Butyl Rubber. Neoprene Rubber(R).

Inhalation: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow CSA Standard Z94.4-93 and use NIOSH/MHSA approved respirators.

**Personal Protective Equipment for Spills**

Eyes: Use full face respirator.

**DOW CORNING(R) CONSTRUCTION PRIMER P**

|                                 |   |
|---------------------------------|---|
| Skin:                           | Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.  |
| Inhalation/Suitable Respirator: | Respiratory protection recommended. Follow CSA Standard Z94.4-93 and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection. |
| Precautionary Measures:         | Avoid eye contact. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. 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 exposure within Section 8 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. 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](http://www.SEHSC.com)) or contact the Dow Corning customer service group.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                          |                |
|--------------------------|----------------|
| Physical Form:           | Liquid         |
| Color:                   | Colorless      |
| Odor:                    | Aromatic odour |
| Odor Threshold:          | Not available. |
| Specific Gravity @ 25°C: | 0.95           |
| Viscosity:               | 200 cSt        |
| Freezing/Melting Point:  | Not available. |
| Boiling Point:           | > 70 °C        |
| Vapor Pressure @ 25°C:   | Not available. |
| Vapor Density:           | Not available. |
| Evaporation Rate:        | Not available. |
| Solubility in Water:     | Not available. |
| Coefficient of Water/Oil | Not available. |
| Distribution:            |                |
| pH:                      | Not available. |
| Volatile Content:        | Not available. |

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

**10. STABILITY AND REACTIVITY**

|                           |  |
|---------------------------|--|
| Chemical Stability:       | Stable.                                  |
| Hazardous Polymerization: | Hazardous polymerization will not occur. |

**DOW CORNING(R) CONSTRUCTION PRIMER P**

Conditions to Avoid: None.

Materials to Avoid: Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 8.

**11. TOXICOLOGICAL INFORMATION**

**Component Toxicology Information**

Toxicology studies with laboratory animals and occupational evaluations with humans have found limited evidence of birth defects, low birth weights and delayed growth in offspring resulting from repeated exposures to toluene during pregnancy.

**Special Hazard Information on Components**

**Reproductive Effects**

| <u>CAS Number</u> | <u>Wt %</u> | <u>Component Name</u> |   |
|-------------------|-------------|-----------------------|---|
| 108-88-3          | 40.0 - 70.0 | Toluene               | Evidence of reproductive effects in humans. |

**12. ECOLOGICAL INFORMATION**

**Environmental Fate and Distribution**

Complete information is not yet available.

**Environmental Effects**

Complete information is not yet available.

**Fate and Effects in Waste Water Treatment Plants**

Complete information is not yet available.

Ecotoxicity Classification Criteria

| Hazard Parameters (LC50 or EC50) | High  | Medium           | Low   |
|----------------------------------|-------|------------------|-------|
| Acute Aquatic Toxicity (mg/L)    | <=1   | >1 and <=100     | >100  |
| Acute Terrestrial Toxicity       | <=100 | >100 and <= 2000 | >2000 |

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

**13. DISPOSAL CONSIDERATIONS**

Can be incinerated in accordance with local regulations.

Call local hazardous waste disposal company or provincial waste authorities for more information.

**DOW CORNING(R) CONSTRUCTION PRIMER P****14. TRANSPORT INFORMATION**

Check product label for transportation information. Call Dow Corning Transportation, (989) 496-8577, if additional information is required.

**15. REGULATORY INFORMATION**

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

WHMIS  
CLASSIFICATION:           Class B, Division 2.  
                                  Class D, Division 2, Subdivision A.  
                                  Class D, Division 2, Subdivision B.

DSL STATUS:               Consult your local Dow Corning office.

**16. OTHER INFORMATION**

Prepared by: Dow Corning Corporation

These data are offered in good faith as typical values and not as product specifications. No warranty, either 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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