

**DOW CORNING CORPORATION  
Material Safety Data Sheet****DOW CORNING(R) P5200 ADHESION PROMOTER - CLEAR****1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

MSDS No.: 02710480

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

Prepared by Hazard Communication: (800) 248-2481

CANUTEC: (613) 996-6666

**MANUFACTURER:**Dow Corning Corporation  
South Saginaw Road  
Midland, Michigan 48686

24 Hour Emergency Telephone: (989) 496-5900

**WHMIS CLASSIFICATION:** Class B, Division 2.  
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>
107-51-7	> 60.0	Octamethyltrisiloxane
5593-70-4	5.0 - 10.0	Tetrabutyl titanate
18407-95-9	5.0 - 10.0	1-Methoxyisopropyl orthosilicate
682-01-9	5.0 - 10.0	Tetrapropyl orthosilicate

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

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW****Generic Description:** Mixture of inorganic and organic compounds**Physical Form:** Liquid**Colour:** Colorless to pale yellow**Odour:** Slight**n-Butyl alcohol is formed on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL (final rule): TWA 100 ppm and ACGIH TLV: 20 ppm.****Propylene glycol monomethyl ether is formed on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL (final rule) and ACGIH TLV: TWA 100 ppm and STEL 150 ppm.****n-Propyl alcohol is formed upon contact with water or humid air. Provide adequate ventilation to control**

**DOW CORNING CORPORATION  
Material Safety Data Sheet****DOW CORNING(R) P5200 ADHESION PROMOTER - CLEAR**

exposures within guidelines of OSHA PEL (final rule): TWA 200 ppm, STEL 250 ppm. ACGIH TLV: TWA 200 ppm, STEL 400 ppm.

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**POTENTIAL HEALTH EFFECTS**Acute Effects

- Eye: Direct contact may cause moderate irritation.
- Skin: May cause moderate irritation.
- Inhalation: Vapor and/or mist irritating to the respiratory tract. Vapor overexposure may cause drowsiness.
- Oral: Harmful by ingestion. Swallowing large amounts may cause drowsiness.

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: No known applicable information.
- Oral: Repeated ingestion or swallowing large amounts may injure internally.

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 immediate medical attention.
- Oral: Get medical attention.
- Comments: Treat according to person's condition and specifics of exposure.

**DOW CORNING CORPORATION  
Material Safety Data Sheet****DOW CORNING(R) P5200 ADHESION PROMOTER - CLEAR****5. FIRE FIGHTING MEASURES**

- Flash Point: 87.4 °F / 30.8 °C (Pensky-Martens Closed Cup)
- Autoignition Temperature: Not available.
- Flammability Limits in Air: Not available.
- Extinguishing Media: On large fires use medium expansion (>30:1) AFFF alcohol compatible foam or water spray. On small fires use medium expansion (>30:1) AFFF alcohol compatible foam, CO2 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. Fire burns more vigorously than would be expected.

**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. Metal oxides. Formaldehyde. Silicon dioxide.

**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 (989) 496-5900, if additional information is required.

**7. HANDLING AND STORAGE**

Use with adequate ventilation. Product evolves n-butyl alcohol when exposed to water or humid air. Provide ventilation during use to control n-butyl alcohol within exposure guidelines or use respiratory protection. Product evolves propylene glycol monomethyl ether when exposed to water or humid air. Provide ventilation during use to control propylene glycol monomethyl ether within exposure guidelines or use respiratory protection. Product evolves n-propyl alcohol when exposed to water or humid air. Provide ventilation during use to control n-propyl alcohol within exposure guidelines or use

# DOW CORNING CORPORATION

## Material Safety Data Sheet

### DOW CORNING(R) P5200 ADHESION PROMOTER - CLEAR

respiratory protection. Avoid eye contact. Avoid skin contact. Do not breathe 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

##### Component Exposure Limits

Consult local authorities for acceptable provincial values.

<u>CAS Number</u>	<u>Component Name</u>	<u>Exposure Limits</u>
107-51-7	Octamethyltrisiloxane	Dow Corning guide: TWA 200 ppm.
5593-70-4	Tetrabutyl titanate	See n-butyl alcohol comments. LD50: 3,122 mg/kg - Oral Rat
18407-95-9	1-Methoxyisopropyl orthosilicate	See propylene glycol monomethyl ether comments. LD50: 1,530 mg/kg - Oral Rat
682-01-9	Tetrapropyl orthosilicate	See n-propyl alcohol comments.

n-Butyl alcohol is formed on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL (final rule): TWA 100 ppm and ACGIH TLV: 20 ppm.

Propylene glycol monomethyl ether is formed on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL (final rule) and ACGIH TLV: TWA 100 ppm and STEL 150 ppm.

n-Propyl alcohol is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL (final rule): TWA 200 ppm, STEL 250 ppm. ACGIH TLV: TWA 200 ppm, STEL 400 ppm.

##### Engineering Controls

Local Ventilation: Recommended.  
General Ventilation: Recommended.

##### Personal Protective Equipment for Routine Handling

Eyes: Use proper protection - safety glasses as a minimum.

Skin: Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.

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

# DOW CORNING CORPORATION

## Material Safety Data Sheet

Page: 5 of 8

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### DOW CORNING(R) P5200 ADHESION PROMOTER - CLEAR

**Inhalation:** 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:** 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.

**Skin:** Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. 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. Do not breathe vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Use reasonable care.

**Comments:** Product evolves n-butyl alcohol when exposed to water or humid air. Provide ventilation during use to control n-butyl alcohol within exposure guidelines or use respiratory protection. Product evolves propylene glycol monomethyl ether when exposed to water or humid air. Provide ventilation during use to control propylene glycol monomethyl ether within exposure guidelines or use respiratory protection. Product evolves n-propyl alcohol when exposed to water or humid air. Provide ventilation during use to control n-propyl alcohol within exposure guidelines or use respiratory protection.

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 to pale yellow  
 Odor: Slight  
 Odor Threshold: Not available.  
 Specific Gravity @ 25°C: 0.820  
 Viscosity: 1 cSt  
 Freezing/Melting Point: Not available.  
 Boiling Point: > 150 °C  
 Vapor Pressure @ 25°C: Not available.  
 Vapor Density: Not available.

**DOW CORNING CORPORATION  
Material Safety Data Sheet**

**DOW CORNING(R) P5200 ADHESION PROMOTER - CLEAR**

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.

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**

**Special Hazard Information on Components**

No known applicable information.

**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.

**DOW CORNING CORPORATION  
Material Safety Data Sheet****DOW CORNING(R) P5200 ADHESION PROMOTER - CLEAR****13. DISPOSAL CONSIDERATIONS**

Can be incinerated in accordance with local regulations.

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

**14. TRANSPORT INFORMATION****Canada Road (Based on IMDG Regulations)**

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.  
Hazard Technical Name: Octamethyltrisiloxane / Tetrabutyl titanate  
Hazard Class: 3  
UN/NA Number: UN 1993  
Packing Group: III  
Hazard Label(s): flammable liquid

**Ocean Shipment (IMDG)**

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.  
Hazard Technical Name: Octamethyltrisiloxane / Tetrabutyl titanate  
Hazard Class: 3  
UN/NA Number: UN 1993  
Packing Group: III  
Hazard Label(s): flammable liquid

**Air Shipment (IATA)**

Proper Shipping Name: Flammable liquid, n.o.s.  
Hazard Technical Name: Octamethyltrisiloxane / Tetrabutyl titanate  
Hazard Class: 3  
UN/NA Number: UN 1993  
Packing Group: III

**DOW CORNING CORPORATION  
Material Safety Data Sheet****DOW CORNING(R) P5200 ADHESION PROMOTER - CLEAR**

Hazard Class: Flammable Liquid

**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 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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