

DOW CORNING CORPORATION
Material Safety Data Sheet

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Version: 2.1

Revision Date: 2006/12/04

DOW CORNING(R) 790 SILICONE BUILDING SEALANT, LIMESTONE**1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY****MSDS No.: 04029596****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 D, Division 2, Subdivision B.**
Class D, Division 2, Subdivision A.**Material Usage: Sealant****2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW****Generic Description: Silicone elastomer****Physical Form: Paste****Colour: See product name****Odour: Fishy****N-methyl acetamide is formed on contact with water or humid air. Provide adequate ventilation to control exposures to within Dow Corning recommended exposure guidelines of 1 ppm (TWA) and 5 ppm (Excursion Limit).**

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POTENTIAL HEALTH EFFECTSAcute Effects**Eye:** Direct contact may cause moderate irritation.**Skin:** May cause mild irritation.**Inhalation:** Irritates respiratory passages very slightly.**Oral:** Low ingestion hazard in normal use.Prolonged/Repeated Exposure Effects

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Skin: Repeated or prolonged exposure may irritate seriously.

Inhalation: Overexposure by inhalation may injure the following organ(s): Testes. Liver. Pancreas. Spleen.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
50791-87-2	1.0 - 5.0	Methylvinyl bis(n-methylacetamido) silane
68952-53-4	1.0 - 5.0	Dimethyl, methylethyl-N-hydroxyethamine siloxane
68-12-2	0.5 - 1.5	Dimethylformamide
14808-60-7	0.1 - 1.0	Quartz
1330-20-7	0.1 - 1.0	Xylene
556-67-2	0.1 - 1.0	Octamethylcyclotetrasiloxane

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

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 medical attention.

Notes to Physician: Treat according to person's condition and specifics of exposure.

DOW CORNING(R) 790 SILICONE BUILDING SEALANT, LIMESTONE**5. FIRE FIGHTING MEASURES**

Flash Point: Not applicable.

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 (CO₂), 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: None.

6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up: Observe all personal protection equipment recommendations described in Sections 5 and 8. 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. 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-methyl acetamide when exposed to water or humid air. Provide ventilation during use to control N-methyl acetamide within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally.

Use reasonable care and store away from oxidizing materials. 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.

CAS NumberComponent NameExposure Limits

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50791-87-2	Methylvinyl bis(n-methylacetamido) silane	See N-methyl acetamide comments.
68-12-2	Dimethylformamide	OSHA PEL-skin and ACGIH TLV-skin: TWA 10 ppm. LC50: 9400 mg/m ³ - Inhalation Mouse ; 2 Hrs LD50: 2,800 mg/kg - Oral Rat
14808-60-7	Quartz	OSHA PEL (final rule): TWA 10 mg/m ³ % respirable SiO ₂ +2; TWA 30 mg/m ³ % total dust SiO ₂ +2 and ACGIH TLV: TWA 0.025 mg/m ³ respirable fraction.
1330-20-7	Xylene	Observe xylene limits. OSHA PEL (final rule) and ACGIH TLV: TWA 100 ppm, STEL 150 ppm. LC50: 5000 ppm - Inhalation Rat; 4 Hrs LD50: 4,300 mg/kg - Oral Rat LD50: > 1,700 mg/kg - Dermal Rabbit
556-67-2	Octamethylcyclotetrasiloxane	Dow Corning guide: TWA 10 ppm. LC50: 36 mg/L - Inhalation Rat ; 4 Hrs LD50: > 2,000 mg/kg - Oral Rat

N-methyl acetamide is formed on contact with water or humid air. Provide adequate ventilation to control exposures to within Dow Corning recommended exposure guidelines of 1 ppm (TWA) and 5 ppm (Excursion Limit).

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: Avoid skin contact by implementing good industrial hygiene practices and procedures. Select and use gloves and/or protective clothing to further minimize the potential for skin contact. Consult with your glove and/or personnel protective equipment manufacturer for selection of appropriate compatible materials.

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.

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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. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Use reasonable care.

Comments: Product evolves N-methyl acetamide when exposed to water or humid air. Provide ventilation during use to control N-methyl acetamide 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Paste

Color: See product name

Odor: Fishy

Odor Threshold: Not available.

Specific Gravity @ 25°C: 1.48

Viscosity: Not available.

Freezing/Melting Point: Not available.

Boiling Point: Not available.

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.

Flash Point: Not applicable.

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Autoignition Temperature: Not available.

Flammability Limits in Air: 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.

Hazardous Decomposition Products

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

11. TOXICOLOGICAL INFORMATION**Component Toxicology Information**

Contains Bis(N-methyl acetamido)silane which liberates N-methylacetamide (NMA) during cure. NMA has been shown to cause birth defects in laboratory animals.

Prolonged overexposure to quartz or crystalline silica dust causes fibrotic lung disease (silicosis) and potentially lung cancer.

Recent results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. These effects, which have been shown to be rat-specific, occur at the highest exposure dose (700 ppm) only, a level that greatly exceeds typical workplace or consumer exposures. Industrial, commercial, or consumer uses of products containing D4 do not represent a risk to humans.

Octamethylcyclotetrasiloxane administered to rats by inhalation at concentrations of 500 and 700 ppm resulted in statistically significant decreases in the number of pups born and the live litter size in both the first and second generations. Prolonged estrous cycles, and decreased mating and fertility indices were observed following 700 ppm exposure in the second generation only. There were also increases in the incidence of deliveries of offspring extending over an unusually long time period (dystocia). Subsequent mode of action work demonstrated the effect on reproduction in female rats is due to delayed ovulation caused by a treatment-related delay in or blockage of the luteinizing hormone (LH) surge on the day of proestrus. This mode of action is not considered relevant to humans.

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Special Hazard Information on Components**Carcinogens**

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>	
14808-60-7	0.1 - 1.0	Quartz	IARC Group 1 - Carcinogenic to Humans. NTP - Known to be a Human Carcinogen. ACGIH A2 - Suspected Human Carcinogen.

Teratogens

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>	
68-12-2	0.5 - 1.5	Dimethylformamide	Evidence of teratogenicity (birth defects) in laboratory animals.
1330-20-7	0.1 - 1.0	Xylene	Evidence of teratogenicity (birth defects) in laboratory animals.

Reproductive Effects

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>	
556-67-2	0.1 - 1.0	Octamethylcyclotetrasiloxane	Evidence of reproductive effects in laboratory animals.

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
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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.

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

Not subject to local road regulations.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

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 D, Division 2, Subdivision B.
Class D, Division 2, Subdivision A.

DSL STATUS: All chemical substances in this material are included on or exempted from the DSL.

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DOW CORNING(R) 790 SILICONE BUILDING SEALANT, LIMESTONE**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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