DOW CORNING DOW CORNING CORPORATION **Material Safety Data Sheet** Page: 1 of 8 SYLGARD(R) PRIME COAT 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY 24 Hour Emergency Telephone: (989) 496-5900 **Dow Corning Corporation** South Saginaw Road Customer Service: (989) 496-6000 Midland, Michigan 48686 Product Disposal Information: (989) 496-6315 CHEMTREC: (800) 424-9300 MSDS No.: 01016814 Revision Date: 2004/02/27 Generic Description: Silicone in solvent Physical Form: Liquid Color: Not available Odor: Not available NFPA Profile: Health 2 Flammability 3 Instability/Reactivity 0 Note: NFPA = National Fire Protection Association 2. OSHA HAZARDOUS COMPONENTS CAS Number **Component Name** Wt % 142-82-5 > 60.0 Heptane 2551-83-9 3.0 - 7.0 Allyltrimethoxysilane 5593-70-4 1.0 - 5.0 Tetrabutyl titanate The above components are hazardous as defined in 29 CFR 1910.1200. 3. EFFECTS OF OVEREXPOSURE Acute Effects Eye: Direct contact may cause moderate irritation. Skin: May cause moderate irritation. Inhalation: Vapor may irritate nose and throat. Overexposure by inhalation may cause central nervous system depression which may be characterized by drowsiness, dizziness, confusion, loss of coordination, unconsciousness, and at very high concentrations even death. May cause vomiting. Aspiration of liquid while vomiting may injure lungs seriously. Oral: Prolonged/Repeated Exposure Effects Skin: Repeated or prolonged exposure may irritate seriously. Inhalation: Exposures to high concentrations may cause cardiac sensitization. Overexposure by inhalation may injure the following organ(s):Heart. Nervous system.

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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.

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. Ge medical attention if irritation or other ill effects develop or persist.	
Inhalation:	Remove to fresh air. Get immediate medical attention.	
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 MEAS	URES	
Flash Point:	9 °F / -12.8 °C (Pensky-Martens Closed Cup)	
Autoignition Temperature:	Not determined.	
Flammability Limits in Air:	Not determined.	
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:	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		

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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, state and 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. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

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 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 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. Do not breathe vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Avoid eye contact. Avoid skin contact.

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

CAS Number	Component Name	Exposure Limits
142-82-5	Heptane	OSHA PEL (final rule): TWA 500 ppm, 2000 mg/m3. ACGIH TLV: TWA 400 ppm, STEL 500 ppm.
2551-83-9	Allyltrimethoxysilane	See methyl alcohol comments.
5593-70-4	Tetrabutyl titanate	See n-butyl 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. 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

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Local Ventilation: General Ventilation:	Recommended. Recommended.		
Personal Protective Equ	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:	Silver Shield(R). 4H(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 OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA 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 OSHA Respirator Regulations (29 CFR 1910.134) 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:	Do not breathe vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Avoid eye contact. Avoid skin contact. 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 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) or contact the Dow Corning customer service group.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:Liquid
Color:Not available
Odor:Odor:Not availableSpecific Gravity @ 25°C:0.70
Viscosity:Specific Gravity @ 25°C:1 cStFreezing/Melting Point:Not determined.
Boiling Point:Boiling Point:> 90 °CVapor Pressure @ 25°C:Not determined.
Vapor Density:Not determined.
Solubility in Water:Not determined.
Not determined.
pH:Not determined.
Volatile Content:Not determined.

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

Mutagens

CAS Number Wt % Component Name

2551-83-9 3.0 - 7.0 Allyltrimethoxysilane

Genetically active in IN VITRO assay(s).

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

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Complete information is not yet available.

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

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes

Characteristic Waste:

Ignitable: D001 D018

TCLP:

State or local laws may impose additional regulatory requirements regarding disposal.

Call Dow Corning Corporate Environmental Management, (989) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Proper Shipping Name:	HEPTANE SOLUTION
Hazard Class:	3
UN/NA Number:	UN1206
Packing Group:	II
Hazard Label(s):	FLAMMABLE LIQUID LABEL
Ocean Shipment (IMDG)	2
Proper Shipping Name:	HEPTANE SOLUTION
Hazard Class:	3
UN Number:	1206
Packing Group:	II
Hazard Label(s):	FLAMMABLE LIQUID

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Marine Pollutant: Not Applicable

Air Shipment (IATA)

Proper Shipping Name: HEPTANE SOLUTION

3

Hazard Class:

UN Number: 1206

Packing Group: II

Hazard Label(s): FLAMMABLE LIQUID

Call Dow Corning Transportation, (989) 496-8577, if additional information is required. **15. REGULATORY INFORMATION**

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances:

None.

Section 304 CERCLA Hazardous Substances:

None.

Section 312 Hazard Class:

Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactive: No

Section 313 Toxic Chemicals:

None present or none present in regulated quantities.

Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

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	None known.		
м	lassachusetts		
<u>C/</u>	AS Number	<u>Wt %</u>	Component Name
	142-82-5	> 60.0	Heptane
N	ew Jersey		
<u>C/</u>	AS Number	<u>Wt %</u>	Component Name
	142-82-5	> 60.0	Heptane
	2551-83-9	3.0 - 7.0	Allyltrimethoxysilane
	5593-70-4	1.0 - 5.0	Tetrabutyl titanate
P	ennsylvania		
<u>C</u>	AS Number	<u>Wt %</u>	Component Name
	142-82-5	> 60.0	Heptane
	2551-83-9	3.0 - 7.0	Allyltrimethoxysilane

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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