1. COMPANY AND PRODUCT DESCRIPTION

APPLIED SILICONE CORPORATION
270 Quail Court, Santa Paula, CA 93060, USA
Telephone 805-525-5657 • Fax: 805-933-1675

Prepared August 1, 2008

EMERGENCY PHONE NUMBERS: FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT:

CHEMTREC: 800-424-9300 WITHIN THE UNITED STATES

OR 703-527-3887 FOR INTERNATIONAL COLLECT CALLS

PRODUCT STATUS: FDA regulated use only

CHEMICAL NAME OR SYNONYM: REINFORCED DIMETHYL METHYLVINYL SILOXANES

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS Reg Number	OSHA Hazard	Percentage
POLYDIEMTHYLSILOXANE, VINYL TERMINATED	**********	N	80
FUMED SILICA	**********	N	20

3. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW

Physical Appearance and Odor: Clear paste-like liquid, odorless

Warning Statements: Based on currently available data, this product does not meet the regulatory definition of a hazardous substance. However, good industrial hygiene practices should be used in handling material.

B. POTENTIAL HEALTH EFFECTS:

Acute Eye: Slightly irritating. May cause redness, irritation.

Acute Skin: Low acute dermal toxicity.

Acute Inhalation: Inhalation not likely.

Acute Ingestion: Low acute oral toxicity.

Chronic Effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL:

Eye Exposure: In case of contact, immediately absorb excess with clean absorbent cloth or cotton. Then, hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

Skin Exposure: Immediately wipe excess material off skin with a dry cloth; then wash skin with plenty of soap and water. Seek medical attention if irritation develops or persists.

Inhalation: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Ingestion: If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: No specific information found.

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
Treat symptomatically. No specific antidote available.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:
Flash Point: 190°C (374°F) Flammability Class: WILL BURN
Method Used: Cleveland Open Cup
Flammability Limits (vol/vol%): Lower: 4 Upper: 75
Extinguishing Media: Recommended: Dry chemical, foam, carbon dioxide, water fog.
Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.
Unusual Fire and Explosion Hazards: Product will burn under fire conditions.
Hazardous Decomposition Materials (Under Fire Conditions): Formaldehyde, oxides of carbon, silica (crystalline)

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety: Wear appropriate protective gear for the situation. See Personal Protection Information in Section 8. CAUTION: Spilled material may make the floor slippery. Do not leave traces of product on floors, ladders, etc., as this may present a slipping hazard.
Containment of Spill: Follow procedure described below under Cleanup and Disposal of Spill. Dike spill using absorbent or impervious materials such as earth, sand or clay.
Cleanup and Disposal of Spill: Absorb with an inert absorbent. Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). Clean up residual material with an appropriate solvent like paint thinner or mineral spirits, provided that there is good ventilation and no sources of ignition.
Environmental and Regulatory Reporting: Do not flush to drain.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: < 0°C (32°F)
Handling: Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes.
Storage: Store in tightly closed containers. Store in an area that is clean, well=ventilated, away from ignition sources, away from incompatible materials (see Section 10 – Stability and Reactivity).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations
Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.
This product can form formaldehyde vapors when heated to temperatures above 150°C in the presence of air. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.
Exposure Guidelines: No exposure limits were found for this product or any of its ingredients.
Engineering Controls: Where engineering controls are indicated by use conditions or a potential for excessive exposure exist, the following traditional control techniques may be used to effectively minimize employee exposure: general are dilution / exhaust ventilation.
Respiratory Protection: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations in accordance with the appropriate regulatory standards and/or industrial recommendations.

For reasonably foreseeable industrial end uses of this material, respiratory protection should not be necessary.

Eye / Face Protection: Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.
It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.
Skin Protection: Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e. shirts and pants). Consideration must be given to both durability as well as permeation resistance.
Work Practice Controls: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:
(1) Do not store, use, and or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
(2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet
(3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the Technical Services Department using the phone number in Section 1 for its exact specifications.

Physical Appearance: Clear paste-like liquid
Odor: Odorless
pH: Not Applicable
Specific Gravity: 1.1 at 25°C (77°F)
Water Solubility: Insoluble

Melting Point Range: Not Available
Boiling Point Range: 260°C (500°F)
Vapor Pressure: < 1 mmHg at 25°C (77°F)

Vapor Density: Not Available

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal handling and storage conditions described in Section 7
Conditions to be Avoided: Heat, open flame, spark, static electricity
Materials/Chemicals to be Avoided: Strong bases, strong acids, strong oxidizing agents
Decomposition Temperature Range: 300 to 0°C (572 to 32°F)
The Following Hazardous Decomposition Products Might Be Expected:
Decomposition Type: Thermal
Dimethylcyclosiloxanes
Methylphenylcyclosiloxanes
Decomposition Type: Oxidative/Thermal - Formaldehyde
Hazardous Polymerization Will Not Occur
Avoid the Following to Inhibit Hazardous Polymerization: Not Applicable

10. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: The following data are for similar or related products
Toxicological Information and Interpretation
Eye: Eye irritation, rabbit. Slightly irritating. Data for similar product with a lower viscosity.
Acute Skin Irritation: The following data are for similar or related products
Skin: Skin irritation, rabbit. Non-irritating. Data for similar product with a lower viscosity.
Acute Dermal Toxicity: No test data found for product
Acute Respiratory Irritation: No test data found for product.
Acute Inhalation Toxicity: No test data found for product.
Acute Oral Toxicity: The following data are for similar or related products
Toxicological Information and Interpretation: LD50 – lethal dose 50% of test species, 5004 mg/kg, rat. Data for a similar product with a lower viscosity.
Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be “probable” or “suspected” human carcinogens.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data found for product.
Chemical Fate Information: No data found for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.
Container Handling and Disposal: Any containers or equipment used should be de-contaminated immediately after use.
EPA Hazardous Waste: NO

14. TRANSPORTATION INFORMATION

Transportation Status: IMPORTANT! Statements below provide additional data on listed DOT classification:
The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation Shipping Name: NOT REGULATED

15. REGULATORY INFORMATION

INVENTORY STATUS

Inventory	Status
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPE (EINECS / ELINCS)	P
AUSTRIAL (AICS)	Y
JAPAN (MITI)	N
SOUTH KOREA (KECL)	Y

Y = All ingredients are on the inventory
E = All ingredients are on the inventory or exempt from listing
P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing
N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing

FEDERAL REGULATIONS
Inventory Issues: All functional components of this product are listed on the TSCA Inventory

SARA Title III Hazard Classes:

Fire Hazard	NO
Reactive Hazard	NO
Release of Pressure	NO
Acute Health Hazard	NO
Chronic Health Hazard	NO

STATE REGULATIONS:
This product does not contain any components that are regulated under California Proposition 65

16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings – NFPA(R)
1 Health Hazard Rating – Slight
1 Flammability Rating – Slight
0 Instability Rating – Minimal
National Paint and Coating Hazardous Materials Identification System – HMIS(R)
1 Health Hazard Rating – Slight
1 Flammability Rating – Slight
0 Reactivity Rating – Minimal

Reason for Revision: Initial release of MSDS with updated format

Key Legend Information
ACGIH – American Conference of Governmental Industrial Hygienists
OSHA – Occupational Safety and Health Administration
TLV – Threshold Limit Value
PEL – Permissible Exposure Limit
TWA – Time Weighted Average
STEL – Short Term Exposure Limit
NTP – National Toxicology Program
IARC – International Agency for Research on Cancer
ND – Not Determined

DISCLAIMER

All information appearing herein is based upon data considered to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

MATERIAL SAFETY DATA SHEET

LIQUID SILICONE RUBBER – 10:1 SYSTEM – PART B

PART NUMBERS 40029, 40072, 40082

1. COMPANY AND PRODUCT DESCRIPTION

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Prepared August 1, 2008

EMERGENCY PHONE NUMBERS: FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT:

CHEMTREC: 800-424-9300 WITHIN THE UNITED STATES

OR 703-527-3887 FOR INTERNATIONAL COLLECT CALLS

PRODUCT STATUS: FDA regulated use only

CHEMICAL NAME OR SYNONYM: REINFORCED DIMETHYL METHYLHYDROGEN SILOXANES

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS Reg Number	OSHA Hazard	Percentage
DIMETHYL SILICONE ELASTOMER BASE	**********	N	100

3. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW

Physical Appearance and Odor: Clear paste-like solid, odorless

Warning Statements: CAUTION! FLAMMABLE HYDROGEN GAS MAY BE RELEASED DURING STORAGE AND ON CONTACT WITH WATER, ALCOHOLS, BASES, ACIDS AND SOME METALLIC SALTS.

B. POTENTIAL HEALTH EFFECTS:

Acute Eye: Slightly irritating. May cause redness, irritation.

Acute Skin: Non-irritating.

Acute Inhalation: Inhalation not likely.

Acute Ingestion: Practically non-toxic.

Chronic Effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL:

Eye Exposure: In case of contact, immediately absorb excess with clean absorbent cloth or cotton. Then, hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

Skin Exposure: Immediately wipe excess material off skin with a dry cloth; then wash skin with plenty of soap and water. Seek medical attention if irritation develops or persists.

Inhalation: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Ingestion: If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: No specific information found.

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:
Flash Point: 95°C (203°F) Flammability Class: WILL BURN
Method Used: Cleveland Open Cup
Flammability Limits (vol/vol%): Lower: 4 Upper: 75
Extinguishing Media: Recommended: Dry chemical, foam, carbon dioxide.
Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.
Unusual Fire and Explosion Hazards: Product will burn under fire conditions. Hydrogen gas, which is flammable and can form explosive mixtures with air, may be released during storage and on contact with water, acids, bases, amines and common metals.
Hazardous Decomposition Materials (Under Fire Conditions): Formaldehyde, oxides of carbon, oxides of silicon

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8. CAUTION: Spilled material may make the floor slippery. Do not leave traces of product on floors, ladders, etc., as this may present a slipping hazard. Eliminated all sources of ignition until the area is determined to be free from explosion or fire hazards. Evacuate and isolate spill area.
Containment of Spill: Follow procedure described below under Cleanup and Disposal of Spill.
Cleanup and Disposal of Spill: Absorb with an inert absorbent. Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). Clean up residual material with an appropriate solvent like paint thinner or mineral spirits, provided that there is good ventilation and no sources of ignition.
Environmental and Regulatory Reporting: Do not flush to drain.

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: < 0°C (32°F)
Handling: Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes.
Storage: Store in tightly closed containers. Store in an area that is clean, well ventilated, away from ignition sources, away from incompatible materials (see Section 10 Stability and Reactivity).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations
Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.
This product can form formaldehyde vapors when heated to temperatures above 150°C in the presence of air. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.
Exposure Guidelines: No exposure limits were found for this product or any of its ingredients.
Engineering Controls: Where engineering controls are indicated by use conditions or a potential for excessive exposure exist, the following traditional control techniques may be used to effectively minimize employee exposure: general are dilution / exhaust ventilation.
Respiratory Protection: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations in accordance with the appropriate regulatory standards and/or industrial recommendations.

For reasonably foreseeable industrial end uses of this material, respiratory protection should not be necessary.
Eye / Face Protection: Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.
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Work Practice Controls: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:
(1) Do not store, use, and or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
(2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet
(3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the Technical Services Department using the phone number in Section 1 for its exact specifications.

Physical Appearance: Clear paste-like solid
Odor: Odorless
pH: Not Applicable
Specific Gravity: 1.1 at 25°C (77°F)
Water Solubility: Insoluble

Melting Point Range: Not Available
Freezing Point Range: < 0°C (32°F)
Boiling Point Range: > 260°C (500°F) at 760 mmHg
Vapor Pressure: < 0.1 mmHg at 25°C (77°F)
Vapor Density: Not Available

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal handling and storage conditions described in Section 7
Conditions to be Avoided: Heat, open flame, spark
Materials/Chemicals to be Avoided: Strong bases, strong acids, strong oxidizing agents
Decomposition Temperature Range: 300 to 0°C (572 to 32°F)
The Following Hazardous Decomposition Products Might Be Expected:
Decomposition Type: Oxidative/Thermal - Formaldehyde
Hazardous Polymerization Will Not Occur
Avoid the Following to Inhibit Hazardous Polymerization: Not Applicable

10. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: No Test data found for product
Acute Skin Irritation: No Test data found for product
Acute Dermal Toxicity: No test data found for product
Acute Respiratory Irritation: No test data found for product.
Acute Inhalation Toxicity: No test data found for product.
Acute Oral Toxicity: No Test data found for product
Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be “probable” or “suspected” human carcinogens.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data found for product.
Chemical Fate Information: No data found for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.
Container Handling and Disposal: Any containers or equipment used should be de-contaminated immediately after use.
EPA Hazardous Waste: NO

14. TRANSPORTATION INFORMATION

Transportation Status: IMPORTANT! Statements below provide additional data on listed DOT classification:
The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US Department of Transportation Shipping Name: NOT REGULATED

15. REGULATORY INFORMATION

INVENTORY STATUS

Inventory	Status
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPE (EINECS / ELINCS)	P
AUSTRIAL (AICS)	Y
JAPAN (MITI)	Y
SOUTH KOREA (KECL)	Y

Y = All ingredients are on the inventory
E = All ingredients are on the inventory or exempt from listing
P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing
N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing

FEDERAL REGULATIONS
Inventory Issues: All functional components of this product are listed on the TSCA Inventory

SARA Title III Hazard Classes:

Fire Hazard	NO
Reactive Hazard	YES
Release of Pressure	NO
Acute Health Hazard	NO
Chronic Health Hazard	NO

STATE REGULATIONS:
This product does not contain any components that are regulated under California Proposition 65

16. OTHER INFORMATION

National Fire Protection Association Hazard Ratings – NFPA(R)
1 Health Hazard Rating – Slight
1 Flammability Rating – Slight
0 Instability Rating – Minimal
National Paint and Coating Hazardous Materials Identification System – HMIS(R)
1 Health Hazard Rating – Slight
1 Flammability Rating – Slight
0 Reactivity Rating – Minimal

Reason for Revision: Initial release of MSDS with updated format

Key Legend Information
ACGIH – American Conference of Governmental Industrial Hygienists
OSHA – Occupational Safety and Health Administration
TLV – Threshold Limit Value
PEL – Permissible Exposure Limit
TWA – Time Weighted Average
STEL – Short Term Exposure Limit
NTP – National Toxicology Program
IARC – International Agency for Research on Cancer
ND – Not Determined

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