



Factor II, Incorporated

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MATERIAL SAFETY DATA SHEET A-RTV-40 Part A BASE

In Case of Emergency Contact 928-537-8387 Factor II, Inc.

Factor II Technology urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to the use and understanding of the data contained in this MSDS.

To promote safe handling each customer or recipient should: (1) notify and furnish its employees, agents, contractors, customers, and others whom it knows or believes will use this material of the information regarding hazards or safety; (2) request its customers to notify their employees, customers and other users of the product of this information.

1. CHEMICAL PRODUCT

PRODUCT NAME: Reinforced Dimethyl Methylvinyl Siloxanes
CHEMICAL NAME: Polysiloxane
CHEMICAL FAMILY: Silicone
FORMULA: Proprietary

2. HAZARDOUS INGREDIENTS

%	Componet	CAS#	OSHA Hazard
	Methylvinylpolysiloxane	N
	Silica, Amorphous, Treated	N
		

3. HAZARDS IDENTIFICATION

WARNING STATEMENT:

This product, as sold, does not meet the regulatory definition of a hazardous material.

SWALLOWING:

Low acute oral toxicity.

SKIN ABSORPTION:

No evidence of adverse effects from available information.

INHALATION:

Not likely

SKIN CONTACT:

Non irritating.

EYE CONTACT:

May cause redness and irritation.

CHRONIC EFFECTS:

This product does not contain any ingredient designated by IARC, NYP, ACGIH, or OSHA as probable or suspected human carcinogen.

OTHER EFFECTS OF OVEREXPOSURE

None currently known.

4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:



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SWALLOWING:

Do not induce vomiting. Consult a doctor if necessary. Rinse mouth out with water.

SKIN:

Wash with soap and water. Seek medical attention if irritation develops or persists.

INHALATION:

Inhalation is not an expected route of exposure. If symptoms should develop remove to fresh air. Obtain Medical attention if symptoms persist.

EYES:

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if discomfort persists or visual changes.

NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT (test method(s): 200^oC 392 F Cleveland open cup Will Burn

FLAMMABLE LIMITS IN AIR (by volume):

LOWER: N/A UPPER:N/A

EXTINGUISHING MEDIA:

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) Oxides of nitrogen

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Do not flush to drain. Clean up residual material with an appropriate solvent like paint thinner or mineral spirits (provided there is good ventilation and no source of ignition).

WASTE DISPOSAL METHOD: Dispose of in accordance with all Federal, State, and local regulations.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Normal precautions common to safe manufacturing practice should be followed in handling and storage.

Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes.

Store away from incompatible materials (See section 10)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INTRODUCTORY REMARKS:

This product can form formaldehyde vapors when heated to temperatures above 150 C in the presence of air.

Check exposure limit guidelines for formaldehyde, a byproduct of oxidative thermal decomposition of dimethylsiloxane, if this product is handled above 300°F.

OCCUPATIONAL EXPOSURE VALUES AND SOURCE: None found for this product.

RESPIRATORY PROTECTION:

Use NIOSH approved respirator or self-contained breathing apparatus as needed to maintain personnel exposure below



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established Occupational Exposure Values..

VENTILATION: General (mechanical) room ventilation with local ventilation as needed to maintain exposure below established Occupational Exposure Values.

WORK PRACTICE CONTROLS:

Personal hygiene should be taken when working with or handling any chemical.

1. Do not store, use, 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 of contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES (based on typical material)

BOILING POINT: >260C @ 760mmHg

SPECIFIC GRAVITY (H₂O=1): 1.08 @ 25C

VAPOR PRESSURE <0.1 mmHg @ 25 C

VAPOR DENSITY (air=1): Not Available

SOLUBILITY IN WATER (By wt): Insoluble

ODOR: Odorless

PHYSICAL STATE: colorless viscous liquid

Note: The above information is not intended for use in preparing product specifications.

10. STABILITY AND REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: Avoid contact with elevated temperatures, open flame and other ignition sources.

MATERIAL/CHEMICAL TO BE AVOIDED:

Strong bases, Acids, and Oxidizing agents

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: *Thermal*

Methylphenylcyclsiloxanes

Oxidative/Thermal

Formaldehyde

Traces of formaldehyde may be generated due to oxidative thermal decomposition at temperatures greater than 150°C (300°F). Exposure to formaldehyde can cause adverse effects such as skin and respiratory sensitization and eye and throat irritation. Formaldehyde is a potential carcinogen. Evaluate and control exposure to formaldehyde when warranted by conditions of use.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

COMPONENT:

No test data found for this product

Refer to Section 3 for further discussion of the health hazards associated with this preparation.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Complete information not yet available.

CHEMICAL FATE INFORMATION: Complete information not yet available.

13.DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Federal, State, and local regulations. Not EPA Hazardous Waste

14. TRANSPORT INFORMATION

I.A.T.A. HAZARD CLASSIFICATION:

Proper Shipping Name: Not regulated



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15. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS:

The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations.

Inventory Status	United States (TSCA)	Y
	Canada (DSL)	Y
	Eruope (EINECS/ELINCS)	P
	Austrailia (AICS)	Y
	Japan (MITI)	Y
	South Korea (KECL)	Y

16. OTHER INFORMATION

HMIS FORMAT:

Health: 1 Slight

Flammability:1 Slight

Reactivity: 0

We believe that the information contained herein is current as of the date of this Material Safety Data Sheet, and is offered in good faith. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of Factor II Technology, it is the user's obligation to determine the conditions of safe use of the product.
Factor II Technology Regulatory Compliance Department



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MATERIAL SAFETY DATA SHEET A-RTV-40 Part B CATALYST

Factor II Technology urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to the use and understanding of the data contained in this MSDS.

To promote safe handling each customer or recipient should: (1) notify and furnish its employees, agents, contractors, customers, and others whom it knows or believes will use this material of the information regarding hazards or safety; (2) request its customers to notify their employees, customers and other users of the product of this information.

1. CHEMICAL PRODUCT

PRODUCT NAME: A-RTV-40 Part B

CHEMICAL NAME: Polydimethyl (Methylhydrogen) Siloxane, Hydrogen End-Blocked

CHEMICAL FAMILY: Silicone

FORMULA: Proprietary

2. HAZARDOUS INGREDIENTS

%	MATERIAL	CAS#	OSHA Hazard
15-40	Polydimethyl Siloxane, Hydrogen End Blocked	69013-23-6	Y
15-40	Polydimethylsiloxanes,	*****	N
10-30	Polydimethylsiloxanes, Hydrogen Terminated	70900-21-9	Y
10-30	Silica, Amorphous, Treated	*****	N

3. HAZARDS IDENTIFICATION

A: EMERGENCY OVERVIEW:

Physical Appearance and Odor

Clear/Liquid, Slight Odor

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 INGESTION

Practically non-toxic

ACUTE SKIN ABSORPTION:

Slightly irritating. May cause irritation on prolonged contact.



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ACUTE INHALATION:

Inhalation not likely

EYE CONTACT:

Slightly irritating. May cause redness and irritation.

CHRONIC EFFECTS:

This product does not contain any ingredient designated by IARC, NYP, ACGIH, or OSHA as probable or suspected human carcinogen.

4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING:

Never attempt to induce vomiting. Consult a doctor if necessary. Rinse mouth out with water..

SKIN:

Immediately wipe off excess material with a dry cloth. Wash with soap and water. Seek medical attention if irritation develops or persists.

INHALATION:

Inhalation is not an expected route of exposure. If symptoms should develop. Remove to fresh air. Obtain Medical attention if symptoms persist.

EYES:

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if discomfort persists or visual changes.

NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT >200 C (392F) Will Burn

FLAMMABLE LIMITS IN AIR (by volume):

LOWER: N/A UPPER:N/A

EXTINGUISHING MEDIA:

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. Vapors may travel a considerable distance to a source of ignition and flash back along vapor trail. Closed containers mayh explode (due to the build-up of pressure" when exposed to extreme heat. Small amounts of 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.



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HAZARDOUS DECOMPOSITION MATERIALS (Under fire conditions)
Formaldehyde, Oxides of Carbon, Silica (crystalline).

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Do not flush to drain. Clean up residual material with an appropriate solvent like paint thinner or mineral spirits (provided there is good ventilation and no source of ignition).

WASTE DISPOSAL METHOD: Dispose of in accordance with all Federal, State, and local regulations.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Normal precautions common to safe manufacturing practice should be followed in handling and storage. Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. Store away from incompatible materials (See section 10)

MINIMUM/MAXIMUM STORAGE TEMPERATURES:

<27 C (81 F)

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.

OCCUPATIONAL EXPOSURE VALUES AND SOURCE:

No exposure limits were found for this product or any of its ingredients.

RESPIRATORY PROTECTION:

Use NIOSH approved respirator or self-contained breathing apparatus as needed to maintain personnel exposure below established Occupational Exposure Values. Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by appropriate agencies. Air-purifying (half-mask/full-face respirator with cartridges/canister approved for use against organic vapors).

EYE/FACE PROTECTION:

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. Consideration given to both durability as well as permeation resistance.

WORK PRACTICE CONTROLS:

Personal hygiene should be taken when working with or handling any chemical.

1. Do not store, use, or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.



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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 of contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES (based on typical material)

BOILING POINT: Not available
SPECIFIC GRAVITY 1.04 at 0 C (32 F).
VAPOR PRESSURE Not available
VAPOR DENSITY (air=1): Not Available
SOLUBILITY IN WATER (By wt): insoluble
ODOR: Slight
PHYSICAL STATE: Clear liquid

10. STABILITY AND REACTIVITY DATA

STABILITY: Stable under normal working conditions.

CONDITIONS TO AVOID:

Combustible materials, heat, open flame, spark, static electricity, water, extreme humidity

MATERIAL/CHEMICAL TO BE AVOIDED:

Moisture, Water, Strong bases, Acids, and Oxidizing agents, alcohols, metal salts.

DECOMPOSITION PRODUCTS:

Hyrolysis

Hydrogen

Thermal

Dimethycyclosiloxanes

Oxidative/Thermal

Formaldehyde

Silica

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

COMPONENT:

No test data found for this product

Refer to Section 3 for further discussion of the health hazards associated with this preparation.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

No Data found for this product.

CHEMICAL FATE INFORMATION:

No Data found for this product.

13. DISPOSAL CONSIDERATIONS



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Dispose of in accordance with all Federal, State, and local regulations. Not EPA Hazardous Waste

14. TRANSPORT INFORMATION

I.A.T.A. HAZARD CLASSIFICATION:

Proper Shipping Name: Not regulated

DOT

The listed transportation classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

15. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS:

The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations.

Inventory Status	United States (TSCA)	Y
	Canada (DSL)	Y
	Eruope (EINECS/ELINCS)	P
	Austrailia (AICS)	Y
	Japan (MITI)	Y
	South Korea (KECL)	Y

16. OTHER INFORMATION

HMIS FORMAT:

Health: 0

Flammability:1

Reactivity: 1

We believe that the information contained herein is current as of the date of this Material Safety Data Sheet, and is offered in good faith. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of Factor II Technology, it is the user's obligation to determine the conditions of safe use of the product.
Factor II Technology Regulatory Compliance Department