



Factor II, Incorporated

P.O. Box 1339
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Fax: (928) 537-0893

MATERIAL SAFETY DATA SHEET **A-103 Base** **MEDICAL GRADE ELASTOMER BASE** **In Case of emergency contact Factor II, Inc.** **928-537-8387 or 928-242-1308**

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. PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT NAME: Silicone compound

PHYSICAL FORM: Viscous Liquid

COLOR: Transulant gray

ODOR: Odorless

NFPA PROFILE **Health 0** **Flammability 1** **Reactivity 0**

*Note: NFPA = National Fire Protection Association

SPECIFIC GRAVITY: Not Determined

VISCOSITY: Not Determined

FREEZING/MELTING POINT: Not Determined

VAOPR PRESSURE/DENSITY: Not Determined

SOLUBILITY IN WATER: Not Determined

VOLATILE CONTENT: Not Determined

2. HAZARDOUS COMPONENTS

None present. This is not a hazardous material as defined in the OSHA Hazard Communication Standard.

3. EFFECTS OF OVEREXPOSURE

ACUTE EFFECTS

INHALATION: No significant irritation expected from a single short-term exposure.

SKIN: No significant irritation expected from a single short-term exposure.

EYE: Direct contact may cause temporary redness and discomfort.

SWALLOWING: Low ingestion hazard in normal use.



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PROLONGED/REPEATED EXPOSURE EFFECTS

SKIN: No known applicable information.

INHALATION: No known applicable information

SWALLOWING: No known applicable information.

EFFECTS OF REPEATED OVEREXPOSURE:

No known applicable information.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

No known applicable information.

OTHER EFFECTS OF OVEREXPOSURE

None currently known.

*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

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING: No first aid should be needed.

SKIN: No first aid should be needed.

INHALATION: No first aid should be needed.

EYES: Immediately flush eyes with water and continue washing for at least 15 minutes.

NOTES TO PHYSICIAN:

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT: >213.8°F / >101°C (Closed Cup)

AUTOIGNITION TEMPERATURE: Not determined.

FLAMMABLE LIMITS IN AIR (by volume):

LOWER: N/A UPPER: N/A



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EXTINGUISHING MEDIA:

Use dry chemical, foam or water spray for large fires. Use carbon dioxide (CO₂), or dry chemical media for small fires. Water can be used to cool fire exposed containers.

SPECIAL FIRE FIGHTING PROCEDURES:

Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Determine the need to evacuate or isolate the area according to your local emergency plan.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None.

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. Silicon dioxide. Formaldehyde. Nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Section 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 some silicon 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. Section 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for spills.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Use with adequate ventilation. Avoid eye contact.

Use reasonable care and store away from oxidizing materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

COMPONENT EXPOSURE LIMITS: There are no components with workplace exposure limits.

ENGINEERING CONTROLS:

Local Ventilation: None should be needed
General Ventilation: Recommended



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PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING:

Eyes: Use proper protection – safety glasses as a minimum.
Skin: Washing at mealtime and end of shift is adequate.
Suitable Gloves: No special protection needed.
Inhalation: No respiratory protection should be needed.
Suitable Respirator: None should be needed.

PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS:

Eyes: Use proper protection – safety glasses as a minimum.
Skin: Washing at mealtime and end of shift is adequate.
Inhalation: No respiratory protection should be needed.
Suitable Respirator: None should be needed.
Precautionary Measures: Avoid eye contact. Use reasonable care.

Comments: When heated to temperatures above 150 degrees C in the presence of air, product can form formaldehyde vapors. 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.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray application may require added precautions.

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

PHYSICAL STATE: Viscous Liquid
COLOR: Translucent gray
ODOR: Odorless
SPECIFIC GRAVITY @ 25°C: 1.10
VISCOSITY: 1,150 Poise
FREEZING/MELTING POINT: Not determined
BOILING POINT: > 35C/95F
VAPOR PRESSURE @ 25°C: Not determined
VAPOR DENSITY: Not determined
SOLUBILITY IN WATER (By wt): Not determined
pH: Not determined
VOLATILE CONTENT: Not determined

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

10. STABILITY AND REACTIVITY DATA

CHEMICAL STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.
MATERIALS TO AVOID: Oxidizing material can cause a reaction.
CONDITIONS TO AVOID: None.



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11. TOXICOLOGICAL INFORMATION

SPECIAL HAZARD INFORMATION ON COMPONENTS: No known applicable information.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND DISTRIBUTION: Complete information not yet available.
ENVIRONMENTAL EFFECTS: Complete information not yet available.
FATE AND EFFECTS IN WASTE WATER TREATMENT PLANTS: Complete information 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.

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? No

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

14. TRANSPORT INFORMATION

I.A.T.A. HAZARD CLASSIFICATION: Not subject to I.A.T.A. regulations.

DOT (49 CFR 172.101): Not subject to DOT regulations

Ocean (IMDG): Not subject to IMDG regulations

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 Listings

Section 302 Extremely Hazardous Substances: None

Section 304 CERCLA Hazardous Substances: None

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Section 312 Hazard Class:

Acute	No
Chronic	No
Fire	No
Pressure	No
Reactive	No

Section 313 Toxic Chemicals: None present or none present regulated quantities.

FEDERAL EPA

STATE-RIGHT-TO-KNOW

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.

None Known

MASSACHUSETTS

No ingredient regulated by MA
Right to Know law present

PENNSYLVANIA

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
68083-19-2	>60.0	Dimethyl siloxane, dimethylvinyl-terminated
68909-20-6	15.0 – 40.0	Trimethylated silica

NEW JERSEY

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
68083-19-2	>60.0	Dimethyl siloxane, dimethylvinyl-terminated
68909-20-6	15.0 – 40.0	Trimethylated silica

16. OTHER INFORMATION

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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MSDS A-103 Curing Agent In Case of emergency contact Factor II, Inc. 928-537-8387 or 928-242-1308

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. PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT NAME: Silicone compound

PHYSICAL FORM: Liquid

COLOR: Transulant white

ODOR: Acetic acid odor

NFPA PROFILE

Health 0

Flammability 1

Reactivity 1

*Note: NFPA = National Fire Protection Association

SPECIFIC GRAVITY: Not Determined

VISCOSITY: Not Determined

FREEZING/MELTING POINT: Not Determined

VAOPR PRESSURE/DENSITY: Not Determined

SOLUBILITY IN WATER: Not Determined

VOLATILE CONTENT: Not Determined

2. HAZARDOUS COMPONENTS

<u>CAS Number</u>	<u>Wt%</u>	<u>Component</u>
68037-59-2	10.0.- 30.0	Dimethyl, methylhydrogen siloxane

*The above components are hazardous as defined in 29 CFR 1910.1200.

3. EFFECTS OF OVEREXPOSURE

ACUTE EFFECTS

INHALATION: Irritates respiratory passages very slightly.



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SKIN: No significant irritation expected from a single short-term exposure.

EYE: Direct contact may cause temporary redness and discomfort.

SWALLOWING: Low ingestion hazard in normal use.

PROLONGED/REPEATED EXPOSURE EFFECTS

SKIN: No known applicable information.

INHALATION: No known applicable information

SWALLOWING: No known applicable information.

EFFECTS OF REPEATED OVEREXPOSURE:

No evidence of adverse effects from available information.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

No known applicable information.

OTHER EFFECTS OF OVEREXPOSURE

None currently known.

*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

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING: No first aid should be needed.

SKIN: No first aid should be needed.

INHALATION: No first aid should be needed.

EYES: Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention.

NOTES TO PHYSICIAN:

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT: >214°F / >101.1°C (Closed Cup)



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FLAMMABLE LIMITS IN AIR (by volume):

LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA:

Use dry chemical, foam or water spray for large fires. Use carbon dioxide, or dry chemical media for small fires.

SPECIAL FIRE FIGHTING PROCEDURES:

Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Determine the need to evacuate or isolate the area according to your local emergency plan.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None.

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. Silicon dioxide. Formaldehyde. Hydrogen.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Section 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. Materials in contact with water, moisture, acids or bases have the potential to generate hydrogen gas. Recovered material should be stored in a vented container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since some silicon materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent 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. Section 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for spills.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Use with adequate ventilation. Avoid eye contact.

Product evolves minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do not repackage. Do not store in glass containers which may shatter due to pressure build up. Clogged container vents may increase pressure build up. Keep container closed and store away from water or moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



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COMPONENT EXPOSURE LIMITS: There are no components with workplace exposure limits.

ENGINEERING CONTROLS:

Local Ventilation: Recommended
General Ventilation: Recommended

PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING:

Eyes: Use proper protection – safety glasses as a minimum.
Skin: Washing at mealtime and end of shift is adequate.
Suitable Gloves: No special protection needed.
Inhalation: No respiratory protection should be needed.
Suitable Respirator: None should be needed.

PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS:

Eyes: Use proper protection – safety glasses as a minimum.
Skin: Washing at mealtime and end of shift is adequate.
Inhalation: No respiratory protection should be needed.
Suitable Respirator: None should be needed.
Precautionary Measures: Avoid eye contact. Use reasonable care.

Comments: When heated to temperatures above 150 degrees C in the presence of air, product can form formaldehyde vapors. 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.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray application may require added precautions.

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

PHYSICAL STATE: Liquid
COLOR: Not available
ODOR: Not available
SPECIFIC GRAVITY @ 25°C: 0.968
VISCOSITY: 500 cSt
FREEZING/MELTING POINT: Not determined
BOILING POINT: > 35C/95F
VAPOR PRESSURE @ 25°C: Not determined
VAPOR DENSITY: Not determined
SOLUBILITY IN WATER (By wt): Not determined
pH: Not determined
VOLATILE CONTENT: Not determined

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

10. STABILITY AND REACTIVITY DATA



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CHEMICAL STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

MATERIALS TO AVOID: Oxidizing material can cause a reaction. Water, alcohols, acidic or basic materials and many metals or metallic compounds, when in contact with product, liberate flammable hydrogen gas, which can form explosive mixtures in air.

CONDITIONS TO AVOID: None.

11. TOXICOLOGICAL INFORMATION

SPECIAL HAZARD INFORMATION ON COMPONENTS: No known applicable information.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND DISTRIBUTION: Complete information not yet available.
ENVIRONMENTAL EFFECTS: Complete information not yet available.
FATE AND EFFECTS IN WASTE WATER TREATMENT PLANTS: Complete information 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.

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:

Reactive: D003

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

14. TRANSPORT INFORMATION

I.A.T.A. HAZARD CLASSIFICATION: Not subject to I.A.T.A. regulations. (Vented packages forbidden for air transport)

DOT (49 CFR 172.101): Not subject to DOT regulations

Ocean (IMDG): Not subject to IMDG regulations

15. REGULATORY INFORMATION

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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 Listings

Section 302 Extremely Hazardous Substances: None

Section 304 CERCLA Hazardous Substances: None

Section 312 Hazard Class:

Acute	No
Chronic	No
Fire	No
Pressure	No
Reactive	Yes

Section 313 Toxic Chemicals: None present or none present regulated quantities.

FEDERAL EPA

STATE-RIGHT-TO-KNOW

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.

None Known

MASSACHUSETTS

No ingredient regulated by MA
Right to Know law present

PENNSYLVANIA

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
68083-19-2	>60.0	Dimethyl siloxane, dimethylvinyl-terminated
68037-59-2	10.0 – 30.0	Dimethyl, methylhydrogen siloxane

NEW JERSEY



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<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
68083-19-2	>60.0	Dimethyl siloxane, dimethylvinyl-terminated
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16. OTHER INFORMATION

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