



Factor II, Incorporated

The Art, Science and Technology of
Silicones and Prosthetics...

Safety Data Sheet

VST-50 HD

Revision Date: 03/18/2020

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER

Product Name VerSilTal Silicone Elastomer

Product Code VST-50 HD A

Intended Use(s) For professional use only

CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

Factor II, Incorporated
5642 White Mountain Ave
PO Box 1339
Lakeside AZ 85929
928-537-8387
www.factor2.com
sales@factor2.com

EMERGENCY TELEPHONE NUMBERS

928- 368-7502

SECTION 2: HAZARD(S) IDENTIFICATION

Hazard classification:

Label elements

Hazard symbol

No symbol

Signal word

No signal word

Hazard Statement

Titanium dioxide:

When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use.

Precautionary Statements

Prevention

Not applicable

Response

Not applicable

Storage

Not applicable

Disposal

Not applicable

Other hazards with do not result in GHS classification

No data available



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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

General information: Mixture of Polyorganosiloxanes, fillers, additives.

SECTION 4: FIRST-AID MEASURES

| | |
|---|---|
| General information | For further information refer to Section 8 "Exposure-controls/ personal protection" |
| Ingestion | Do NOT induce vomiting, Rinse mouth thoroughly Get medical attention if symptoms occur. |
| Inhalation | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| Skin contact | Wash skin thoroughly with soap and water. Get medical attention if symptoms occur after washing |
| Eye contact | In the event of contact with the eyes, rinse thoroughly with clean water for at least 15 minutes. Get medical attention if irritation persists after washing. |
| Most important symptoms/effects, acute and delayed | |
| Symptoms | None Known |
| Hazards | No specific recommendations |
| Indication of any immediate medical attention and special treatment needed | |
| Treatment | No specific recommendations. |

SECTION 5: FIRE-FIGHTING MEASURES

| | |
|--|---|
| General Fire Hazards | No specific recommendations |
| Extinguishing media | |
| Suitable extinguishing media | Water spray, dry powder or carbon dioxide. |
| Unsuitable extinguishing media | None known |
| Specific hazards arising from the chemical | |
| Product will burn under fire conditions. Hazardous Decomposition Products: formaldehyde, oxides of carbon and silica. | |
| Special fire fighting procedures | Water spray should be used to cool containers |



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Special protective equipment for fire-fighters

Firefighters should wear standard protective equipment and a positive pressure self-contained breathing apparatus (SCBA)

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleanup

Absorb with sand or other inert absorbent and place into containers

Notification Procedures

Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS

Environmental precautions

Do not allow to enter drains, sewers or watercourses.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

No special precautions. See section 8 of the SDS for Personal Protective Equipment.

Conditions for safe storage, including any incompatibilities

No special storage precautions noted.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

Titanium Dioxide: When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use.

Appropriate Engineering Controls

No specific recommendations

Individual protection measures, such as personal protective equipment

General information

Provide sufficient ventilation during operations which cause vapor formation

Eye/Face

Safety glasses



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Skin protection

Hands

Other

Protective gloves recommended

Wear suitable protective clothing

Respiratory

No protection is ordinarily required under normal conditions of use and with adequate ventilation

Hygiene measures:

Always observe good personal hygiene measures, such as swashing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance

Physical state

Liquid

Form

Viscous

Color

Blue

Odor

Slight

Odor threshold

No data available

pH

Not applicable

Freezing point

No data available

Boiling point

No data available

Flash point

>392°F (200°C) (Closed Cup)

Evaporation rate

No data available

Flammability (solid, gas)

No data available

Flammability limit -upper (%)

No data available

Flammability limit -lower (%)

No data available

Vapor pressure

No data available

Vapor density

No data available

Density

Approximate 1 kg/dm³ (68°F (20°C))

Solubility(ies)

Solubility in water

Insoluble

Solubility (other)

Acetone: Very slightly soluble

Ethanol: Very slightly soluble

Diethylether: Miscible (in all proportions)

Aliphatic hydrocarbons: Miscible (in all portions)

Aromatic hydrocarbons: Miscible (in all proportions)

Chlorinated solvents: Miscible (in all proportions)

Partition coefficient (n-octanol/water)

No data available

Self ignition temperature

>752°F (400°C)

Decomposition temperature

No data available

Viscosity

10,000 mm²/s



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Other information

According to the data on the components Not considered as oxidizing. (according to EC criteria)

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable

Possibility of Hazardous reactions

Will not occur

Conditions to avoid

No other information noted

Incompatible materials

Strong oxidizing agents

Hazardous Decomposition Products

This product can form formaldehyde vapors when heated to temperatures above 150°C in the presence of air. Thermal decomposition or combustion may liberate carbon oxides, other toxic gases or vapors and amorphous silica.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|---------------------|---|
| Ingestion | Not classified for acute toxicity based on available data |
| Inhalation | Not classified for acute toxicity based on available data |
| Skin contact | Not classified for acute toxicity based on available data |
| Eye contact | Not classified for acute toxicity based on available data |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|---------------------|-------------------|
| Ingestion | No data available |
| Inhalation | No data available |
| Skin contact | No data available |
| Eye contact | No data available |

Information on Toxicological effects

Acute toxicity (list all possible routes of exposure)

| | |
|---------------------------|-------------------|
| Oral Product | No data available |
| Dermal Product | No data available |
| Inhalation Product | No data available |

Repeated dose toxicity Products

No effects expected (assessment based on ingredients).

Skin Corrosion Product

No effects expected (assessment based on ingredients).



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Serious Eye Damage/Eye Irritation Product

No effects expected (assessment based on ingredients).

Respiratory or Skin Sensitization Product

No effects expected (assessment based on ingredients).

Carcinogenicity Product

No data available

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Titanium dioxide

US. National Toxicology Program (NTP) Report on Carcinogens

No carcinogenic components identified

US. OSHA Specifically Regulated Substance (29 CFR 1910.1001-1050)

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product

No effects expected (assessment based on ingredients)

In vivo Product

No effects expected (assessment based on ingredients)

Reproductive toxicity Product

No effects expected (assessment based on ingredients)

Specific Target Organs Toxicity – Single exposure product

No effects expected (assessment based on ingredients)

Specific Target Organs Toxicity – Repeated exposure product

No effects expected (assessment based on ingredients)

Aspiration Hazard products

No effects expected (assessment based on ingredients)

Other effects

None known

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product

No effects expected (assessment based on ingredients)

Aquatic Invertebrates Products

No effects expected (assessment based on ingredients)



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Chronic hazards to the aquatic environment

Fish Products

No effects expected (assessment based on ingredients)

Aquatic Invertebrates Product

No effects expected (assessment based on ingredients)

Toxicity to Aquatic Plants Products

No effects expected (assessment based on ingredients)

Persistence and Degradability

Biodegradation products

This product in not readily biodegradable

BOD/COD Ratio products

No data available

Bioaccumulative potential

Bioconcentration Factor (BCF)

This product in not bioaccumulating

Partition Coefficient n-octanol/water (log Kow) Products

No data available

Mobility is soil

No data available

Other adverse effects

None Known

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal instructions

Disposed of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Contaminated packages should be as empty as possible

SECTION 14: TRANSPORT INFORMATION

This product is not subject to transport regulations

Environmental hazards

Not regulated

Special precautions for user

No special precautions



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SECTION 15: REGULATORY INFORMATION

US Federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities

CERCLA Hazardous Substance List (40 CFR 302.4)

None present or none present in regulated quantities

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities

SARA 304 Emergency Release Notification

None present or none present in regulated quantities

SARA 313 (TRI Reporting)

None present or none present in regulated quantities

Clean Water Act Section 311 Hazardous substance (40 CFR 117.3)

None present or none present in regulated quantities

Clean Air Act (CAA) Section 112 (r) Accidental Release Prevention (40 CFR 68, 130)

None present or none present in regulated quantities

US State regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity Titanium dioxide

US. Massachusetts RTK – Substance List

No ingredient regulated by MA Right-to-Know Law present

US. Pennsylvania RTK – Hazardous Substances

Chemical Identity Titanium dioxide

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present



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Inventory Status

| | |
|---|--|
| Australia AICS | On or in compliance with the inventory |
| Canada DSL Inventory | On or in compliance with the inventory |
| EINECS, ELINCS or NLP | On or in compliance with the inventory |
| Korea Existing Chemicals Inv. (KECI) | On or in compliance with the inventory |
| Phillipines PICCS | On or in compliance with the inventory |
| US TSCA Inventory | On or in compliance with the inventory |
| New Zealand Inventory of Chemicals | On or in compliance with the inventory |

SECTION 16: OTHER INFORMATION

HMIS III:

| | |
|----------------------------|-----------------------------|
| Health | 1- Slight |
| Flammability | 1- Slight |
| Physical Hazards | 0 – Minimal |
| Personal Protection | B – Safety Glasses & Gloves |

NFPA:

| | |
|-----------------------|-------------|
| Health | 1- Slight |
| Flammability | 1- Slight |
| Reactivity | 0 – Minimal |
| Special hazard | |

DISCLAIMER / STATEMENT OF LIABILITY:

Factor II, Inc. urges each customer or recipient of this SDS 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/or fire prevention as necessary or appropriate to the use and understanding of the data contained in this SDS.

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



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Product Name Silicone Elastomer

Product Code VST-50 HD B

Intended Use(s) : For professional use only

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EMERGENCY TELEPHONE NUMBERS

928- 368-7502

SECTION 2: HAZARD(S) IDENTIFICATION

Hazard Classification Not a hazardous substance or mixture according to GHS.

Label Elements

| | |
|-------------------------|-----------------|
| Hazard Symbol | No symbol |
| Signal Word | No signal word. |
| Hazard Statement | Not applicable |

Precautionary Statements

| | |
|-------------------|----------------|
| Prevention | Not applicable |
| Response | Not applicable |
| Storage | Not applicable |
| Disposal | Not applicable |



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Other hazards which do not result in GHS classification

No data available.

SECTION 3: HAZARDOUS INGREDIENTS

Mixtures

Composition Comments

Mixture of Polyorganosiloxanes, fillers, additives.

SECTION 4: FIRST-AID MEASURES

General information:

For further information refer to section 8 "Exposure-controls/personal protection".

Ingestion:

Do not induce vomiting. Rinse mouth thoroughly. Get medical attention if symptoms occur.

Inhalation:

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin Contact:

Wash contact areas with soap and water. Get medical attention if symptoms occur after washing.

Eye contact:

In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Most important symptoms/effects, acute and delayed

Symptoms: None known.

Hazards: No specific recommendations.

Indication of immediate medical attention and special treatment needed

Treatment: No specific recommendations.

SECTION 5: FIRE-FIGHTING MEASURES

General Fire Hazards:

No specific recommendations.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media: None known.



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Specific hazards arising from the chemical

Product will burn under fire conditions. Hazardous Decomposition Products: formaldehyde, oxides of carbon and silica.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Water spray should be used to cool containers.

Special protective equipment for fire-fighters:

Firefighters should wear standard protective equipment and a positive pressure self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up:

Absorb with sand or other inert absorbent and place into containers.

Notification Procedures:

Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

Environmental Precautions:

Do not allow to enter drains, sewers or watercourses.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: No specific precautions.

Conditions for safe storage, including any incompatibilities:

No special storage precautions noted.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate Engineering Controls

No specific recommendations

Individual protection measures, such as personal protective equipment



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| | |
|-------------------------------|---|
| General information: | Provide sufficient ventilation during operations which cause vapor formation. |
| Eye/face protection: | Safety Glasses. |
| Skin Protection | |
| Hand Protection: | Protective gloves are recommended. |
| Other: | Wear suitable protective clothing. |
| Respiratory Protection | No protection is ordinarily required under normal conditions of use and with adequate ventilation. |
| Hygiene measures | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance

| | |
|--|--|
| Physical state: | Liquid |
| Form: | Viscous |
| Color: | Colorless |
| Odor: | Slight odor |
| Odor threshold: | No data available. |
| pH: | Not applicable |
| Freezing point: | No data available. |
| Boiling Point: | No data available. |
| Flash Point: | > 392 °F (200 °C) (Closed Cup) |
| Evaporation rate: | No data available. |
| Flammability (solid, gas): | No data available. |
| Flammability limit - upper (%): | No data available. |
| Flammability limit - lower (%): | No data available. |
| Vapor pressure: | No data available. |
| Vapor density: | No data available. |
| Density: | Approximate 1 kg/dm ³ |
| Solubility(ies) | |
| Solubility in water: | Insoluble |
| Solubility (other): | Acetone: Very slightly soluble Ethanol: Very slightly soluble |



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| | |
|---|---|
| Partition coefficient (n-octanol/water): | Diethylether: Miscible (in all proportions). |
| Auto-ignition temperature: | Aliphatic hydrocarbons: Miscible (in all proportions). |
| Decomposition temperature: | Aromatic hydrocarbons: Miscible (in all proportions). |
| Viscosity: | Chlorinated solvents: Miscible (in all proportions). |
| | No data available. |
| | > 752 °F (400 °C) |
| | No data available. |
| | 9,000 - 11,000 mm ² /s (77 °F (25 °C)) |
| Other information | |
| Oxidizing properties: | According to the data on the components Not considered as oxidizing. (according to EC criteria) |

SECTION 10: STABILITY AND REACTIVITY

| | |
|--|-----------------------------|
| Reactivity: | No data available. |
| Chemical Stability: | Stable |
| Possibility of hazardous reactions: | Will not occur. |
| Conditions to avoid | No other information noted. |
| Incompatible Materials: | Strong oxidizing agents. |

Hazardous Decomposition Products:

This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air. Thermal decomposition or combustion may liberate carbon oxides, other toxic gases or vapors and amorphous silica.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

- Ingestion:** No effects expected (assessment based on ingredients).
- Inhalation:** No effects expected (assessment based on ingredients).
- Skin Contact:** No effects expected (assessment based on ingredients).
- Eye contact:** No effects expected (assessment based on ingredients).

Symptoms related to the physical, chemical and toxicological characteristics

- Ingestion:** No data available.
- Inhalation:** No data available.



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Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

| | |
|---------------------------|-------------------|
| Oral Product | No data available |
| Dermal Product | No data available |
| Inhalation Product | No data available |

Repeated dose toxicity Product No effects expected (assessment based on ingredients)

Skin Corrosion/Irritation Product

No effects expected (assessment based on ingredients)

Serious Eye Damage/Eye Irritation Product

No effects expected (assessment based on ingredients)

Respiratory or Skin Sensitization Product

No effects expected (assessment based on ingredients)

Carcinogenicity Product

No effects expected (assessment based on ingredients)

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product No effects expected (assessment based on ingredients)

In vivo Product No effects expected (assessment based on ingredients)

Reproductive toxicity Product

No effects expected (assessment based on ingredients)

Specific Target Organ Toxicity – Single Exposure Product

No effects expected (assessment based on ingredients)

Specific Target Organ Toxicity – Repeated Exposure Product

No effects expected (assessment based on ingredients)



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Aspiration Hazard Product No effects expected (assessment based on ingredients)

Other effects None Known

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product No effects expected (assessment based on ingredients)

Aquatic Invertebrates Product

No effects expected (assessment based on ingredients)

Chronic Hazards to the aquatic environment

Fish Product No effects expected (assessment based on ingredients)

Aquatic Invertebrates Product

No effects expected (assessment based on ingredients)

Toxicity to Aquatic Plants product

No effects expected (assessment based on ingredients)

Persistence and Degradability

Biodegradation Product The product is not readily biodegradable.

BOD/COD Product No data available

Bioaccumulative potential

Bioconcentration Factor (BCF) Product

The product is not bioaccumulating.

Partition Coefficient n-octanol / water (log K_{ow}) Product

Log K_{ow}: No data available.

Mobility in soil No data available

Other adverse effects None known

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Contaminated packages should be as empty as possible.



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SECTION 14: TRANSPORT INFORMATION

This material is not subject to transport regulations.

Environmental hazards: Not regulated.

Special precautions for user: No special precautions.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List



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No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

| | |
|--|---|
| US TSCA Inventory: | On or in compliance with the inventory. |
| Canada DSL Inventory List: | On or in compliance with the inventory. |
| EU EINECS List: | On or in compliance with the inventory. |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory. |
| Korea Existing Chemicals Inv. (KECI): | On or in compliance with the inventory. |
| Australia AICS: | On or in compliance with the inventory. |
| Philippines PICCS: | On or in compliance with the inventory. |
| New Zealand Inventory of Chemicals: | On or in compliance with the inventory. |

SECTION 16: OTHER INFORMATION

HMIS Hazard ID

| | |
|---------------------|-------------------------------|
| Health | 1 - Slight |
| Flammability | 1 - Slight |
| Physical Hazards | 0 - Minimal |
| PERSONAL PROTECTION | B – Safety Glasses and gloves |

NFPA Hazard ID

| | |
|----------------|-------------|
| Flammability | 1 - Slight |
| Health | 1 - Slight |
| Reactivity | 0 - Minimal |
| Special Hazard | |

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER

| | |
|--------------|--------------------|
| Product Name | Silicone Elastomer |
| Product Code | A-RTV-4020 C |



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www.factor2.com
sales@factor2.com

EMERGENCY TELEPHONE NUMBERS

928- 368-7502

SECTION 2: HAZARD IDENTIFICATION

Hazard Classification Not a hazardous substance or mixture according to GHS.

Label Elements

Hazard Symbol No symbol.
Signal Word No signal word.
Hazard Statement Not applicable.

Precautionary Statements

Prevention Not applicable.
Response Not applicable.
Storage Not applicable.
Disposal Not applicable.

Other hazards which do not result in GHS classification

Chemical compounds containing silicon - hydrogen bonds (SiH). This product may generate hydrogen gas. For further information, refer to Section 10: "Stability and Reactivity".

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Composition Comments Mixture of Polyorganosiloxanes, fillers.



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SECTION 4: FIRST AID MEASURES

| | |
|---|---|
| General information | For further information refer to section 8 "Exposure-controls/ personal protection". |
| Ingestion | Do not induce vomiting. Rinse mouth thoroughly. Get medical attention if symptoms occur. |
| Inhalation | Under normal conditions of intended use, this material is not expected to be an inhalation hazard. |
| Skin Contact | Wash skin thoroughly with soap and water. Get medical attention if symptoms occur after washing. |
| Eye contact | In the event of contact with the eyes, rinse thoroughly with clean water for at least 15 minutes. Get medical attention if irritation persists after washing. |
| Most important symptoms/effects, acute and delayed | |
| Symptoms | None known. |
| Hazards | No specific recommendations. |
| Indication of immediate medical attention and special treatment needed | |
| Treatment | No specific recommendations. |

SECTION 5: FIRE FIGHTING MEASURES

| | |
|--|--|
| General Fire Hazards | Water spray should be used to cool containers. |
| Suitable (and unsuitable) extinguishing media | |
| Suitable extinguishing media | Dry chemical, alcohol resistant foam or carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. Do not use alkaline powders. |

Specific hazards arising from the chemical

Product will burn under fire conditions. This product may generate hydrogen gas. Vapors may form explosive mixtures with air. For further information, refer to Section 10: "Stability and Reactivity". Hazardous Decomposition Products : formaldehyde, oxides of carbon and silica.



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Special protective equipment and precautions for firefighters

Special firefighting procedures

Water spray should be used to cool containers.

Special protective equipment for fire-fighters:

Firefighters should wear standard protective equipment and a positive pressure self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with alkalis and caustic products. Eliminate all sources of ignition.

Methods and material for containment and cleaning up

Ventilate the area. Use non-sparking tools. Absorb with sand or other inert absorbent. Avoid contact with bases. Scrape up and place in appropriate vented container.

Notification Procedures

Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

Environmental Precautions

Do not allow to enter drains, sewers or watercourses.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Provide adequate ventilation if fumes or vapors are generated. Do not mix with incompatible materials. For further information, refer to Section 10: "Stability and Reactivity". Read and follow manufacturer's recommendations.

Conditions for safe storage, including any incompatibilities

Store in original vented container. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits None of the components have assigned exposure



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limits.

Appropriate Engineering Controls No special precautions.

Individual protection measures, such as personal protective equipment

General information

Provide sufficient ventilation during operations which cause vapor formation. This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air.

Eye/face protection Wear approved chemical safety glasses.

Skin Protection

Hand Protection Protective gloves are recommended.

Other Wear suitable protective clothing.

Respiratory Protection

No protection is ordinarily required under normal conditions of use and with adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Based on typical material)

Information on basic physical and chemical properties

| | |
|--------------------------------|--------------------|
| Appearance | |
| Physical state | Liquid |
| Form | Viscous |
| Color | Colorless |
| Odor | Slight odor |
| Odor threshold | No data available. |
| pH | Not applicable. |
| Freezing point | No data available. |
| Boiling Point | No data available. |
| Flash Point | > 392 °F (200 °C) |
| Evaporation rate | No data available. |
| Flammability (solid, gas) | No data available. |
| Flammability limit - upper (%) | 74 %(V) Hydrogen. |
| Flammability limit - lower (%) | 4 %(V) Hydrogen. |
| Vapor pressure | No data available. |
| Vapor density | No data available. |



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| | |
|---|--|
| Relative density | 1.04 (77 °F (25 °C)) |
| Solubility(ies) | |
| Solubility in water | Insoluble |
| Solubility (other) | No data available. |
| Partition coefficient (n-octanol/water) | No data available. |
| Auto-ignition temperature | 932 °F (500 °C) Hydrogen. |
| Decomposition temperature | No data available. |
| Viscosity | 200 - 600 mm ² /s (77 °F (25 °C)) |

SECTION 10: STABILITY AND REACTIVITY DATA

| | |
|---|---|
| Reactivity | No data available. |
| Chemical Stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | This product may generate hydrogen gas. |
| Conditions to avoid | Avoid heat, sparks, open flames and other ignition sources. |

Incompatible Materials

A fire or explosion hazard arises because highly flammable gas (hydrogen) is released when it is in contact with: Strong oxidizers, strong bases and chemical compounds with mobile hydrogen, in the presence of metal salts and complexes.

Hazardous Decomposition Products

This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air. Thermal decomposition or combustion may liberate carbon oxides, other toxic gases or vapors and amorphous silica.
Quantity of hydrogen potentially released (l/kg of product): ~38

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|---------------------|--------------------|
| Ingestion | No data available. |
| Inhalation | No data available. |
| Skin Contact | No data available. |
| Eye contact | No data available. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|---------------------|--------------------|
| Ingestion | No data available. |
| Inhalation | No data available. |
| Skin Contact | No data available. |
| Eye contact | No data available. |



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Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

| | |
|---|---------------------------------------|
| Oral Product | ATEmix: 2,500 mg/kg |
| Dermal Product | No data available. |
| Inhalation Product | No data available. |
| Repeated dose toxicity Product | No data available. |
| Skin Corrosion/Irritation Product | No data available. |
| Serious Eye Damage/Eye Irritation Product | No data available. |
| Respiratory or Skin Sensitization Product | No data available. |
| Carcinogenicity Product | No data available. |
| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans | |
| | No carcinogenic components identified |
| US. National Toxicology Program (NTP) Report on Carcinogens | |
| | No carcinogenic components identified |
| US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) | |
| | No carcinogenic components identified |
| Germ Cell Mutagenicity | |
| In vitro Product | No data available. |
| In vivo Product | No data available. |
| Reproductive toxicity Product | No data available. |
| Specific Target Organ Toxicity - Single Exposure Product | |
| | No data available. |
| Specific Target Organ Toxicity - Repeated Exposure Product | |
| | No data available. |
| Aspiration Hazard Product | No data available. |
| Other effects | No data available. |

SECTION 12: ECOLOGICAL INFORMATION



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Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product No data available.

Aquatic Invertebrates Product No data available.

Chronic hazards to the aquatic environment

Fish Product No data available.

Aquatic Invertebrates Product No data available.

Toxicity to Aquatic Plants Product No data available.

Persistence and Degradability

Biodegradation Product No data available.

BOD/COD Ratio Product No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF) Product No data available.

Partition Coefficient n-octanol / water (log Kow) Product
No data available.

Mobility in soil No data available.

Other adverse effects No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal instructions

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Waste of this material should not be mixed with other waste. Provide measures such as vented bungs to ensure pressure relief in the waste container. Contaminated packages should be as empty as possible and equipped with a degassing device.

SECTION 14: TRANSPORT INFORMATION

This material is not subject to transport regulations.

Environmental hazards Not regulated.

Special precautions for user Packaging with a breathing/venting bung are FORBIDDEN for transport by air.



SECTION 15: REGULATORY INFORMATION

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status

US TSCA Inventory On or in compliance with the inventory.

Canada DSL Inventory List On or in compliance with the inventory.



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| | |
|---|---|
| EU EINECS List | On or in compliance with the inventory. |
| Japan (ENCS) List | On or in compliance with the inventory. |
| China Inv. Existing Chemical Substances | On or in compliance with the inventory. |
| Korea Existing Chemicals Inv. (KECI) | On or in compliance with the inventory. |
| Australia AICS | On or in compliance with the inventory. |
| Philippines PICCS | On or in compliance with the inventory. |
| New Zealand Inventory of Chemicals | On or in compliance with the inventory. |

SECTION 16: OTHER INFORMATION

HMIS Hazard ID

| | |
|---------------------|-------------------------------|
| Health | 1 - Slight |
| Flammability | 1 - Slight |
| Physical Hazards | 1 - Slight |
| PERSONAL PROTECTION | B – Safety Glasses and gloves |

NFPA Hazard ID

| | |
|----------------|------------|
| Flammability | 1 - Slight |
| Health | 1 - Slight |
| Reactivity | 1 - Slight |
| Special Hazard | |

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