



**Factor II, Incorporated**

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

**Safety Data Sheet**

Product Code V-40104

Revision Date: 04/04/2018

**SECTION 1: IDENTIFICATION**

PRODUCT IDENTIFIER

Product Name        Silicone

Product Code        V-40104

Intended Use(s) :    For professional use only

CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

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928- 368-7502

**SECTION 2: HAZARD(S) IDENTIFICATION**

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

**Label Elements**

<b>Hazard Symbol:</b>	No symbol.
<b>Signal Word:</b>	No signal word.
<b>Hazard Statement:</b>	Not applicable
<b>Precautionary Statements</b>	
<b>Prevention:</b>	Not applicable
<b>Response:</b>	Not applicable
<b>Storage:</b>	Not applicable
<b>Disposal:</b>	Not applicable

**Other hazards which do not result in GHS classification:**      No data available.



**SECTION 3: HAZARDOUS INGREDIENTS**

**Substances**

**General information:**

**INDEX No.:**  
**CAS-No.:** 63148-62-9  
**EC No.:**  
**REACH Registration No.:**  
**Purity:**  
**Synonyms:**

**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:** No specific recommendations.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Extinguish with foam, carbon dioxide or dry powder.



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**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

### 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:

Use 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:

See Section 8 of the SDS for Personal Protective Equipment. For further information, refer to section 10: "Stability and Reactivity".

### Conditions for safe storage, including any incompatibilities:

Store in tightly closed original container in a dry, cool and well-ventilated place

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.



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### 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 protection:** Safety Glasses.

#### Skin Protection

**Hand Protection:** Protective gloves are recommended.

**Other:** Wear suitable protective clothing.

**Respiratory Protection:** 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

### Information on basic physical and chemical properties:

#### Appearance

**Physical state:** Liquid

**Form:** Viscous

**Color:** Colorless

**Odor:** Odorless

**Odor threshold:** No data available.

**pH:** Not applicable

**Freezing point:** -67 °F (-55 °C) Approximate

**Boiling Point:** No data available.

**Flash Point:** 572 °F (300 °C) (Closed cup according to method  
Afnor T 60103.)

**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:** < 0.1 hPa (68 °F (20 °C))

**Vapor density:** No data available.

**Density:** Approximate 0.96 kg/dm<sup>3</sup> (68 °F (20 °C))

#### Solubility(ies)

**Solubility in water:** Practically Insoluble

**Solubility (other):** Acetone: Very slightly soluble.

Ethanol: Very slightly soluble.

Diethylether: Miscible (in all proportions).



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**Partition coefficient (n-octanol/water):**

**Auto-ignition temperature:**

**Decomposition temperature:**

**Viscosity:**

Aliphatic hydrocarbons: Miscible (in all proportions).

Aromatic hydrocarbons: Miscible (in all proportions).

Chlorinated solvents: Miscible (in all proportions).

No data available.

> 752 °F (400 °C)

> 392 °F (200 °C)

Approximate 100 mm<sup>2</sup>/s (77 °F (25 °C))

### Other information

#### Oxidizing properties:

According to the data on the components Not considered as oxidizing.  
(evaluation by structure-activity relationship)

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** No data available.

**Chemical Stability:** Stable

**Possibility of hazardous reactions:** Will not occur.

**Conditions to avoid:** None known.

**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 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:** LD 50 (Rat): > 5,000 mg/kg

**Dermal Product:** LD 50 (Rat): > 2,000 mg/kg

**Inhalation Product:** No data available.

**Repeated dose toxicity Product:** NOAEL (Rat, Ingestion, /day): 2,500 mg/kg

**Skin Corrosion/Irritation Product:** No data available.

**Serious Eye Damage/Eye Irritation Product:** No data available.

**Respiratory or Skin Sensitization Product:** Not a skin sensitizer.

**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 effects expected (assessment based on ingredients).

**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**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish Product:** LC 50 (Fish, 96 h): Not considered toxic to fish.



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**Aquatic Invertebrates Product:** EC 50 (Sediment Invertebrate, 48 h): Not expected to be harmful to aquatic organisms.

**Chronic hazards to the aquatic environment:**

**Fish Product:** No data available.

**Aquatic Invertebrates Product:** No data available.

**Toxicity to Aquatic Plants Product:**

EC 50 (72 h): Not expected to be harmful to aquatic organisms.

NOEC (72 h): Not expected to be harmful to aquatic organisms.

**Persistence and Degradability**

**Biodegradation Product:** The product is not readily biodegradable.

**BOD/COD Ratio Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF) Product:** The product is not bioaccumulating.

**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. Contaminated packages should be as empty as possible.

### 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.



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### **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:**

Australia AICS: On or in compliance with the inventory.

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

EINECS, ELINCS or NLP: 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.





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Philippines 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.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory.

### SECTION 16: OTHER INFORMATION

#### HNIS 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

Intended Use(s) :    For professional use only

#### CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

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#### 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.

## 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.



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**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<sub>2</sub>).

#### 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.

### 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.



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### 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 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



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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.
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 <sup>2</sup> /s (77 °F (25 °C))

## SECTION 10: STABILITY AND REACTIVITY DATA

<b>Reactivity</b>	No data available.
<b>Chemical Stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	This product may generate hydrogen gas.



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### 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.

### 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



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**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**

**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.



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### 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 INVORMATION

### 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.





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### 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.
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



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### NFPA Hazard ID

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

### PATENT WARNING:

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