

Version: 6.0

Revision Date: 07/10/2018

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SAFETY DATA SHEET

1. Identification

Product identifier: SILBIONE RTV 4410 A

Recommended use and restriction on use

Recommended use: For molded or extruded healthcare and medical components.

Restrictions on use: Not for implantation in the body.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Elkem Silicones USA Corp. Address: 7979 Park Place Road

29745 York, SC

Telephone: +1 (803) 792-3000 Fax: +1 (803) 684-7202

Contact Person:

E-mail: product.stewardship@elkem.com

Supplier

Company Name: Elkem Silicones USA Corp.
Address: Two Tower Blvd, Suite 1601

08816-1100 East Brunswick, NJ

Telephone: +1 (732) 227-2060 Fax: +1 (732) 249-7000

Emergency telephone number: +1 (800) 424-9300 CHEMTREC

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.

3. Composition/information on ingredients

Mixtures

Composition Comments: Mixture of Polyorganosiloxanes, fillers, additives.

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.

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.

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.

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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).

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.

7. Handling and storage

Precautions for safe handling: No specific precautions.

Conditions for safe storage,

including any incompatibilities:

No special storage precautions noted.

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

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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

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Appearance

Physical state: Liquid

Form: Slightly viscous

Color: Colorless
Odor: Odorless

Odor threshold:

pH:

No data available.

Not applicable

No data available.

No data available.

No data available.

No data available.

Flash Point: > 392 °F (200 °C) Approximate

Evaporation rate:

Flammability (solid, gas):

Flammability limit - upper (%):

Flammability limit - lower (%):

Vapor pressure:

Vapor density:

No data available.

No data available.

No data available.

No data available.

Density: Approximate 1.1 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 proportions). Aromatic hydrocarbons: Miscible (in all proportions). Chlorinated solvents: Miscible (in all proportions).

Partition coefficient (n-octanol/water):No data available.Auto-ignition temperature:No data available.Decomposition temperature:No data available.

Viscosity: Approximate 2,000 - 3,000 mm2/s

Other information

Oxidizing properties: According to the data on the components Not considered as

oxidizing. (according to EC criteria)

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.

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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.

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

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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).

Aspiration Hazard

Product: No effects expected (assessment based on ingredients).

Other effects: None known.

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 Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: The product is not bioaccumulating.

Partition Coefficient n-octanol / water (log Kow)

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Product:	No data available.		
Mobility in soil:	No data available.		
Other adverse effects:	None known.		
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.		
14. Transport information			
This material is not subject to transp	•		
Environmental hazards:	Not regulated.		
Special precautions for user:	No special precautions.		
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 Substanc None present or nor	re List (40 CFR 302.4): ne present in regulated quantities.		
Superfund Amendments and F	Reauthorization Act of 1986 (SARA)		
Hazard categories			
Acute (Immediate) Ch	rronic (Delayed) Fire Reactive Pressure Generating		
SARA 302 Extremely Hazardous Substance None present or none present in regulated quantities.			
SARA 304 Emergency Rele None present or nor	ease Notification ne present in regulated quantities.		
SARA 313 (TRI Reporting) None present or nor	ne present in regulated quantities.		
	Hazardous Substances (40 CFR 117.3) ne present in regulated quantities.		
Clean Air Act (CAA) Section 1	12(r) Accidental Release Prevention (40 CFR 68.130):		

US State Regulations

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None present or none present in regulated quantities.



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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.

EINECS, ELINCS or NLP: 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.

16.Other information, including date of preparation or last revision

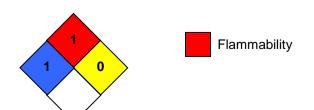
HMIS Hazard ID

Health		1
Flammability		1
Physical Hazards		0
PERSONAL PROTECTION		В

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID





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Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 07/10/2018

Revision Date: No data available.

Version #: 6.0

Further Information: No data available.

Disclaimer: The information given is based on data available for the material, the

components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers

and the environment.

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1. Identification

Product identifier: SILBIONE RTV 4410 B

Recommended use and restriction on use

Recommended use: For molded or extruded healthcare and medical components.

Restrictions on use: Not for implantation in the body.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Elkem Silicones USA Corp. Address: 7979 Park Place Road

29745 York, SC

Telephone: +1 (803) 792-3000 Fax: +1 (803) 684-7202

Contact Person:

E-mail: product.stewardship@elkem.com

Supplier

Company Name: Elkem Silicones USA Corp.
Address: Two Tower Blvd, Suite 1601

08816-1100 East Brunswick, NJ

Telephone: +1 (732) 227-2060 Fax: +1 (732) 249-7000

Emergency telephone number: +1 (800) 424-9300 CHEMTREC

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:

Chemical compounds containing silicon - hydrogen bonds (SiH).

3. Composition/information on ingredients

Mixtures

Composition Comments: Mixture of Polyorganosiloxanes, fillers.

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.

5. Fire-fighting measures

General Fire Hazards: No specific recommendations.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Dry chemical, alcohol resistant foam or carbon dioxide (CO2).

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. 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).

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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:

Avoid contact with alkalis and caustic products. 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.

7. Handling and storage

Precautions for safe handling: Provide sufficient ventilation during operations which cause vapor

formation. 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 tightly closed original container. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames,

and high temperatures.

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

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.

No protection is ordinarily required under normal conditions of use and with **Respiratory Protection:**

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.

9. Physical and chemical properties

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9.1 Information on basic physical and chemical properties:

Appearance

Physical state: Liquid

Form: Slightly viscous

Color: Colorless
Odor: Odorless

Odor threshold:

pH:

No data available.

Not applicable

No data available.

Boiling Point:

No data available.

No data available.

Flash Point: > 392 °F (200 °C) (Closed Cup)

Evaporation rate:

Flammability (solid, gas):

Flammability limit - upper (%):

Flammability limit - lower (%):

Vapor pressure:

Vapor density:

No data available.

No data available.

No data available.

No data available.

Density: Approximate 1.1 kg/dm3 (68 °F (20 °C))

Solubility(ies)

Solubility in water: Insoluble

Solubility (other): Acetone: Very slightly soluble.

Alcohol: Very slightly soluble.

Diethylether: Miscible (in all proportions).

Aliphatic hydrocarbons: Miscible (in all proportions). Aromatic hydrocarbons: Miscible (in all proportions). Chlorinated solvents: Miscible (in all proportions).

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

No data available.

No data available.

No data available.

Viscosity: Approximate 2,000 - 3,000 mm2/s

Other information

Oxidizing properties: According to the data on the components Not considered as

oxidizing. (evaluation by structure-activity relationship)

10. Stability and reactivity

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: No other information noted.

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.

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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 (I/kg of product): < 2

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.

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).

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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).

Aspiration Hazard

Product: No effects expected (assessment based on ingredients).

Other effects: None known.

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: Not applicable

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BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC	•
Product:	No data available.
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.
Mobility in soil:	No data available.
Other adverse effects:	None known.
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. Contaminated packages should be as empty as possible.
14. Transport information	
This material is not subject to transpo	ort regulations.
Environmental hazards:	Not regulated.
Special precautions for user:	No special precautions.
15. Regulatory information	
US Federal Regulations	
	tification (40 CFR 707, Subpt. D) ne present in regulated quantities.
CERCLA Hazardous Substanc None present or nor	e List (40 CFR 302.4): ne present in regulated quantities.
Superfund Amendments and F	Reauthorization Act of 1986 (SARA)
Hazard categories	
Acute (Immediate) Ch	ronic (Delayed) Fire Reactive Pressure Generating
SARA 302 Extremely Haza None present or nor	rdous Substance ne present in regulated quantities.
SARA 304 Emergency Rela None present or nor	ease Notification ne present in regulated quantities.

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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.

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Inventory Status:

US TSCA Inventory: 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.

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.

16.Other information, including date of preparation or last revision

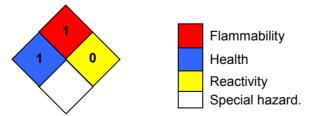
HMIS Hazard ID

Health	1
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	В

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 07/10/2018

Revision Date: No data available.

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Further Information: No data available.

Disclaimer: The information given is based on data available for the material, the

components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers

and the environment.

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