

SAFETY DATA SHEET

Prepared according to USA OSHA Hazcom 2012 / Canada WHMIS 2015



Date Prepared : 12/21/2015

SDS No : XRFC_PART B_RIGID Plastic Repair_ENG

Date Revised : 05/09/2017

Revision No : 2

XRFC Part B SURE SEAL Plastic Repair - RIGID

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: XRFC Part B SURE SEAL Plastic Repair - RIGID

Product Description: Part B RIGID SURE SEAL Plastic Repair, 454 g / 1.0 lb

General Use: Curing Agent for Epoxy adhesive / sealant

Product Stock/Code: XRFC / 40132 (Kit: 908 g / 2 lb)

Chemical Family: Mercaptan

Molecular Formula: Mixture / Mélange

Manufacturer / Supplier

Dominion Sure Seal Ltd.
6175 Danville Road, Mississauga
Ontario, Canada L5T 2H7
Fax: 905-670-5174
www.dominionsureseal.com
Customer Service: 905-670-5411

Emergency Telephone Numbers (24 hour)

CANUTEC : (613) 996-6666
CHEMTREC : (800) 424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

The classification and label elements stated below were prepared in accordance with the USA OSHA Hazard Communication Standard (29 CFR 1910.1200; Hazcom 2012) and the Canadian WHMIS regulations (Hazardous Products Regulations; WHMIS 2015). This information may be different from the actual product label information for labels that are regulated by other agencies.

Health hazards:

Eye Corrosion, Category 1
Skin Irritation, Category 2
Target Organ Toxicity (Single exposure), Category 3 (Respiratory Tract Irritation)
Carcinogenicity, Category 2

Physical hazards:

Not classified

Label elements

Hazardous components for labelling:

Mercaptan terminated polymer, 2,4,6-Tris(dimethylaminomethyl) phenol and Titanium dioxide.



Corrosion



Exclamation
mark



Health
hazard

Signal Word: DANGER

Hazard statement(s)

H318: Causes serious eye damage.
H315: Causes skin irritation.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer.

Precautionary statement(s)

Prevention:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing dust or vapours.
P271: Use only outdoors or in a well-ventilated area.
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves and eye protection.

Response:

P308+P313: IF exposed or concerned: Get medical advice/ attention.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance with applicable local, regional and/or national regulations.

Hazards Not Otherwise Classified: No data available.

Emergency Overview

Immediate concerns: Causes eye damage. Causes skin irritation. May cause respiratory irritation. Vapors may have a strong offensive odor which may cause headaches, nausea and vomiting. Suspected of causing cancer by dust inhalation.

Comments: See sections 9 and 10 for more detailed information on physicochemical effects.

See section 11 for more detailed information on health effects.

See sections 12 for more detailed information on environmental effects.

The actual container label may not include the above label elements. The labeling shown above applies to products used solely for industrial / professional use.

Consumer products should be labeled in accordance with the Canadian Consumer Chemicals and Containers Regulations and US Consumer Product Safety Commission regulations. Consumer product labeling takes precedence over Canadian WHMIS 2015 and OSHA Hazcom 2012 Hazard Communication labeling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS number
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XRFC Part B SURE SEAL Plastic Repair - RIGID

Mercaptan terminated polymer	38 - 40	101359-87-9
Talc	28 - 31	14807-96-6
Barium sulfate	16 - 18	7727-43-7
Calcium carbonate	5 - 5.5	1317-65-3
2,4,6-Tris(dimethylaminomethyl) phenol	3.4 - 3.8	90-72-2
Titanium dioxide	2 - 3	13463-67-7
Bis(dimethylaminomethyl) phenol	0.3 - 0.5	71074-89-0

Comments: There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the product and hence require reporting in this section.

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing and wash before reuse.

Ingestion: Do not induce vomiting. Rinse mouth with water. Give 1 to 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If you experience eye watering, headaches or dizziness, increase fresh air or leave the area.

Signs and Symptoms of Overexposure

Eye Contact: Corrosive. Will cause eye burns and permanent tissue damage.

Skin Contact: Causes skin irritation. Prolonged contact with this product can cause reddening, swelling, rash scaling or blistering.

Ingestion: Substance may be harmful if swallowed. May cause irritation. Symptoms of ingestion may include abdominal pain, nausea, vomiting and diarrhea.

Inhalation: May be irritating to the eyes, nose, throat, and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation. Vapors may have a strong offensive odor which may cause headaches, nausea and vomiting.

Additional Information: No data available.

5. FIRE FIGHTING MEASURES

Flammable Properties: Will burn if involved in a fire.

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Use an extinguishing agent suitable for the surrounding fire.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Fire Fighting Procedures: Containers can build up pressure if exposed to heat (fire).

Fire Fighting Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Sensitivity to Static Discharge: Product is not sensitive to static discharge.

Sensitivity to Mechanical Impact: Product is not sensitive to mechanical impact.

6. ACCIDENTAL RELEASE MEASURES

Small Spill: Ensure adequate ventilation. Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Sweep up material being careful not to raise dust. Place in an appropriate disposal container and seal tightly. Avoid contact with eyes, skin, and clothing.

Environmental Precautions

Water Spill: Do not flush to sewer.

Land Spill: Avoid runoff into storm sewers and ditches which lead to waterways.

Special Protective Equipment: Clean up spills immediately, observing precautions in Protective Equipment section 8.

7. HANDLING AND STORAGE

General Procedures: Ensure thorough ventilation of stores and work areas.

Handling: Use only with adequate ventilation. Avoid breathing vapour. Avoid contact with eyes, skin, and clothing. Wear recommended personal protective equipment. After handling, always wash hands thoroughly with soap and water.

Storage: Store away from heat, sparks, open flames, strong oxidizing agents and direct sunlight. Protect from physical damage. Keep containers tightly closed, when not in use. Store in a cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

OSHA / WHMIS 2015 HAZARDOUS COMPONENTS				
Chemical Name	Occupational Exposure Limits			
	Type		ppm	mg/m ³
Mercaptan terminated polymer	USA OEL	-	-- [1]	-- [1]
Talc	OSHA PEL	TWA	-- [2]	2 [2]
	ACGIH TLV	TWA	-- [2]	2 [2]
	NIOSH REL	TWA	-- [2]	2 [2]
Barium sulfate	OSHA PEL	TWA	-- [3]	5 [3]
	ACGIH TLV	TWA	-- [3]	5 [3]
	NIOSH REL	TWA	-- [3]	5 [3]
Calcium carbonate	OSHA PEL	TWA	-- [4]	15 [4]
	ACGIH TLV	TWA	-- [4]	10 [4]
2,4,6-Tris(dimethylaminomethyl) phenol	USA OEL	-	-- [1]	-- [1]
Titanium dioxide	OSHA PEL	TWA	-- [4]	15 [4]
	ACGIH TLV	TWA	-- [4]	10 [4]
Bis(dimethylaminomethyl) phenol	USA OEL	-	-- [1]	-- [1]

Footnotes:

1. This material does not have established exposure limits in the USA under OSHA, NIOSH, ACGIH.
2. Dust - respirable fraction.
3. Respirable aerosol.
4. Dust - total fraction.

Engineering Controls: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. If user operations generate dust during sanding of this product, use ventilation to keep exposure to airborne dust below the above exposure limits. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

Personal Protective Equipment

Eyes and Face: Wear safety glasses with side shields (or goggles). Contact lenses should not be worn when working with this product. Eye wash fountains should be readily available to areas of use and handling.

Skin Contact: Wear chemical resistant gloves.

Respiratory: In case of insufficient ventilation, wear suitable respiratory equipment. NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protective Clothing: Wear protective clothing as necessary to prevent contact.

Work Hygienic Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Odor	: Mercaptan odor, stench
Odor Threshold	: No data available.
Appearance	: Viscous thixotropic paste
Color	: Beige, off-white
pH	: No data available.
% Volatiles	: < 0.2% w/w
Flash Point and Method	: > 124 °C Closed Cup
Flammable Limits	: No data available.
Autoignition Temperature	: No data available.
Vapor Pressure	: No data available.
Vapor Density	: No data available.
Boiling Point	: No data available.
Freezing Point	: No data available.
Melting Point	: Not Applicable
Solubility in Water	: Practically insoluble
Evaporation Rate (n-butyl acetate = 1)	: No data available.
Density	: 1.55±0.03g/ml at 20°C
Viscosity	: > 200000 cps at 20°C
VOC Content	: Summarized below.
Oxidizing Properties	: None

Comments:

VOC Compliance Statement

Part A VOC Content:	Less Exempts: < 2.5 g/l (< 0.021 lb/gal) Total Material: < 2.5 g/l (< 0.021 lb/gal)
Part A Density:	1.55 ± 0.05 g/ml
Part A Total Volatiles:	< 0.2 % w/w
Part A Exempt Content:	0 % w/w; 0% v/v
Mixed Kit VOC Content:	< 0.4 % w/w Less Exempts: < 5.0 g/l (< 0.04 lb/gal) Total Material: < 5.0 g/l (< 0.04 lb/gal)
VOC Regulation:	SCAQMD Rule 1168 -Adhesives & Sealants - California
Coating Category:	Adhesive, All Other Adhesives
The product VOC content meets the 250 g/l limit for Adhesive, All Other Adhesives.	
The product also meets the small container exemption in the various Adhesives and Sealants district rules - packaged in ≤ 475 ml (16 fl oz) cartridges.	
California compliant.	
VOC Regulation:	CARB, OTC state – Consumer Product Regulations
Coating Category:	General Purpose Adhesive
This product VOC content meets the 10% w/w limit for the General Purpose Adhesive category under the CARB, OTC Consumer Products Regulations. 50 State compliant.	

10. STABILITY AND REACTIVITY

Reactive Hazard : No

Hazardous Polymerization: Not expected to occur.

Stability: Stable.

Conditions to Avoid: Keep away from flames and incompatible materials. Keep away from flames and any object that sparks.

Possibility of Hazardous Reactions: No data available.

Hazardous Decomposition Products: By fire and high heat: Carbon monoxide, Carbon dioxide, Oxides of nitrogen and other undetermined compounds.

Incompatible Materials: Oxidizing materials.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity**

Chemical Name	Oral LD₅₀ mg/kg (rat)	Dermal LD₅₀ mg/kg (rabbit)	Inhalation LC₅₀ mg/l
Mercaptan terminated polymer	> 2000 Based on similar compounds.	> 2000 Based on similar compounds.	> 10(rat;4h) Based on similar compounds.
Talc	Not classified.	Not classified.	Not classified.
Barium sulfate	Not classified.	Not classified.	Not classified.
Calcium carbonate	Not classified.	Not classified.	Not classified.
2,4,6-Tris(dimethylaminomethyl) phenol	1200, 2500, 2169, 1673	1400(rbt), 1280(rat)	>0.5(rat;1h)
Titanium dioxide	> 10,000	No data available.	No data available.
Bis(dimethylaminomethyl) phenol	No data available.	No data available.	No data available.

Acute Toxicity - Dermal LD₅₀: Based on available ingredient data, the classification criteria for Acute Dermal Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg. Slightly toxic. May be harmful in contact with skin.

Acute Toxicity - Oral LD₅₀: Based on available ingredient data, the classification criteria for Acute Oral Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg. Slightly toxic. May be harmful if swallowed.

Acute Toxicity - Inhalation LC₅₀: The mixture is not classified due to inconclusive data. Some data exist, but the data are not sufficient for classification. An estimate based on component information. Vapors may have a strong offensive odor which may cause headaches, nausea and vomiting.

Notes: < 5% of the mixture consists of an ingredient or ingredients of unknown acute toxicity. No additional toxicology information is available for this product itself. (See Component Toxicity Information).

Primary Routes of Entry:

Eye contact. Skin contact. Inhalation.

Skin Irritation / Corrosion: Contains: Mercaptan terminated polymer and 2,4,6-Tris(dimethylaminomethyl) phenol. Causes skin irritation. The mixture is classified as: Skin Irritant, category 2, based on summation of ingredient data ($\geq 1\%$ but $< 5\%$ ingredients classified as skin corrosive, category 1 and $> 10\%$ ingredients classified as skin irritant, category 2). Prolonged contact with this product can cause reddening, swelling, rash scaling or blistering.

Eye Irritation / Serious Eye Damage: Contains: 2,4,6-Tris(dimethylaminomethyl) phenol and Bis(dimethylaminomethyl) phenol. The mixture is classified as: Eye Damage, category 1, based on summation of ingredient data ($> 3\%$ ingredients classified as skin and/or eye category 1). Corrosive. Will cause eye burns and permanent tissue damage.

Respiratory / Skin Sensitizer: Based on available data, the classification criteria for skin/respiratory sensitization are not met for this mixture ($< 0.1\%$ ingredients classified as a skin sensitizer, category 1 or sub-category 1A and $< 1.0\%$ ingredients classified as a skin/respiratory sensitizer, sub-category 1B).

Germ Cell Mutagenicity: Based on available data, the classification criteria for Germ Cell Mutagenicity are not met for this mixture ($< 0.1\%$ ingredients classified as Germ Cell Mutagen, category 1A or 1B and $< 1.0\%$ ingredients classified as Germ Cell Mutagen, category 2).

Carcinogenicity

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Chemical Name	NTP status	IARC status	OSHA status	Other
Mercaptan terminated polymer	--	--	--	--
Talc	--	3	--	A4 (ACGIH)
Barium sulfate	--	--	--	--
Calcium carbonate	--	--	--	--
2,4,6-Tris(dimethylaminomethyl) phenol	--	--	--	--
Titanium dioxide	--	2B	--	A4 (ACGIH)
Bis(dimethylaminomethyl) phenol	--	--	--	--

Notes: The mixture is classified as: Carcinogenicity, category 2 based on ingredient data using the applicable cut-off/concentration limits ($\geq 0.1\%$ ingredients classified as a Carcinogen, category 2). Titanium dioxide is listed as Group 2B (possibly carcinogenic to humans). Titanium dioxide: applies only to respirable dust. This product may be sanded during normal conditions of use and there may be potential exposure to respirable dust during such sanding operations.

Reproductive Toxicity: Based on available data, the classification criteria for Reproductive Toxicity are not met for this mixture ($< 0.1\%$ ingredients classified as Reproductive Toxicity, category 1 or 2).

Specific Target Organ Toxicity - Single Exposure: Contains: Mercaptan terminated polymer. The mixture is classified as: Specific Target Organ Toxicity - Single Exposure, category 3, based on summation of ingredient data using the applicable cut-off/concentration limits ($\geq 20\%$ summation of all ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 3). May be irritating to the eyes, nose, throat, and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation. Vapors may have a strong offensive odor which may cause headaches, nausea and vomiting.

Specific Target Organ Toxicity - Repeated Exposure: Based on available data, the classification criteria for Specific Target Organ Toxicity - Repeated Exposure are not met for this mixture ($< 1.0\%$ ingredients classified as Specific Target Organ Toxicity - Repeated Exposure, category 1 or 2).

Aspiration Hazard: Based on available data, the classification criteria for Aspiration Hazard are not met for this mixture ($< 10\%$ ingredients classified as an Aspiration Hazard, category 1 and/or mixture viscosity > 20.5 mm²/s at 40 °C).

12. ECOLOGICAL INFORMATION

Environmental Data: No data available.

Ecotoxicological Information: No data available.

Bioaccumulation/Accumulation: No data available.

Distribution: No data available.

Aquatic Toxicity (Acute): No data available.

Chemical Fate Information: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Method: Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal. Do not discharge substance/product into sewer system.

Product Disposal: Empty containers retain product residue; observe all precautions for product. Decontaminate containers prior to disposal.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)

Proper Shipping Name : This product is not regulated.

Primary Hazard Class/Division: N/A

UN/NA Number : N/A

Packing Group : N/A

Marine Pollutant : No

Other Shipping Information: No data available.

Vessel (IMO/IMDG)

Shipping Name : This product is not regulated.

UN/NA Number : N/A

Primary Hazard Class/Division: N/A

Packing Group : N/A

Marine Pollutant : No

Note: No data available.

Canadian Transportation of Dangerous Goods Regulations

Shipping Name : This product is not regulated.

UN/NA Number : N/A

Primary Hazard Class/Division: N/A

Packing Group : N/A

TDG Note: No data available.

15. REGULATORY INFORMATION

UNITED STATES

SARA Section 311/312 Hazard Categories

311/312 Health Hazards: Carcinogenicity, Eye Corrosion, Respiratory Tract Irritation, Skin Irritation

311/312 Physical Hazards: None

Fire Hazard : No

Sudden Release of Pressure : No

Reactive Hazard : No

Product Acute Toxicity : Yes

Product Chronic Toxicity : Yes

EPCRA Section 313 Toxic Chemicals:

This product does not contain any listed toxic chemicals that exceed the threshold reporting levels established by SARA Title III, Section 313.

EPCRA Section 302 Extremely Hazardous Substances

EPCRA Status:

This product contains no listed extremely hazardous substances that are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substances and Reportable Quantities (RQ)

CERCLA Status:

This product contains no CERCLA listed hazardous substances.

TSCA (The Toxic Substances Control Act)**TSCA Status:**

All components are included or are otherwise exempt from inclusion on this inventory.

CAA 112(b) - Hazardous Air Pollutants**CAA 112(r) - List of Substances for Accidental Release Prevention:**

This product contains no chemicals subject to CAA 112(b) or CAA 112(r).

California Proposition 65

Chemical Name	Wt. %	Listed
Titanium dioxide	2 - 3	Cancer

OSHA Hazard Communication Standard (29 CFR 1910.1200):

OSHA Status: Hazardous Product (See Section 2 for details).

This product has been classified in accordance with the hazard criteria of the USA OSHA Hazard Communication Standard (29CFR 1910.1200) and the Safety Data Sheet contains all the information required by the OSHA Hazard Communication Standard (HazCom 2012).

CANADA**WHMIS Hazard Symbol and Classification**

See Section 2 for details.

WHMIS Regulatory Status:

This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015).

WHMIS Classification:

WHMIS 2015 (Canada) Status: Hazardous Product (See Section 2 for details).

CEPA - National Pollutant Release Inventory (NPRI):

This product contains no chemicals subject to CEPA - NPRI.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):

All components are included or are otherwise exempt from inclusion on this inventory.

Comments VOC Content -- See section 9.

16. OTHER INFORMATION

Reason for Issue: NEW

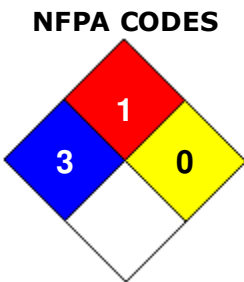
Approved By: Jim Gordon **Title:** R&D Chemist / Chemiste de R&D

Prepared By : Regulatory Compliance / Conformité réglementaire **Date Revised:** 05/09/2017

Information Contact: 905-670-5411

Revision Summary: This MSDS replaces the 12/22/2016 MSDS.

HMIS RATING		
HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		E



NFPA 30 / 30B Storage Classification: Combustible Liquid IIIB

Manufacturer Supplemental Notes: None

Data Sources: Not Available

Additional SDS Information:

- N/AV Not Available
- N/AP Not Applicable
- ND Not yet determined
- ACGIH American Conference of Governmental Industrial Hygienists
- CAA The Clean Air Act
- CCCR The Consumer Chemicals and Containers Regulations
- CEPA The Canadian Environmental Protection Act
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
- EPCRA The Emergency Planning and Community Right-To-Know Act
- IARC International Agency for Research on Cancer
- MSHA Mine Safety and Health Administration
- NIOSH National Institute for Occupational Safety and Health
- NTP National Toxicology Program
- OSHA The Occupational Safety and Health Administration
- SARA The Superfund Amendments and Reauthorization Act
- WHMIS Workplace Hazardous Materials Information System

General Statements: No data available.

Comments: None

Manufacturer Disclaimer: The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. No responsibility is assumed for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of this material.