

MATERIAL SAFETY DATA SHEET

Superior RV Liquid Rubber Roof Coating

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Superior RV Liquid Rubber Roof Coating

Product Number: SUPRV-1, SUPRV-5

Product Use: Protective Coating for RV Roofs

Manufacturer: Superior Polymers Inc.
Box 2113, Angus, Ontario
Canada L0M 1B0
Tel: (705) 792-1331

Emergency Phone: Canutec (613) 996-6666
Chemtrec (800) 424-9300

Date of Preparation: March 15, 2016

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Pre-existing eye, skin, and respiratory disorders may be aggravated by exposure to these products.

Exposure to high concentrations of fumes may have an anesthetic effect.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, skin absorption, eye contact, inhalation, ingestion.

Eye: May cause eye irritation (burning, tearing, redness or swelling).

Skin: Prolonged or repeated contact can cause dermatitis.

Ingestion: May cause liver and kidney damage and acute gastrointestinal tract irritation.

Inhalation: May cause nausea or dizziness. High vapor concentrations can cause central nervous system depression.

Chronic Effects: Delayed. Can cause severe lung damage and may be fatal if swallowed.

Acute Health Effects: Immediate. Irritation to skin, eyes, respiratory system from liquid contact.

Signs and Symptoms: Symptoms may include minor nausea or headache, redness of the eye and skin.

Medical Conditions Aggravated By Exposure: Allergies

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Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS#	WT. %
Styrene-Ethylene/Butylene-Styrene Polymer	66070-58-4	9 - 20
Hydrocarbon Resin	68425-58-1	7 - 11
Calcium Carbonate	1317-65-3	9 - 15
Titanium Dioxide	14808-60-7	8 - 20
Dimethylbenzene	1330-20-7	5 - 20
1-chloro-4-(trifluoromethyl)benzene	98-56-6	10 - 30
Solvent Naphtha	64742-95-6	10 - 30

Section 4: FIRST AID MEASURES

Eye Contact: In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

Skin Contact: Remove contaminated clothing and shoes. Wash affected areas with soap and water.

Inhalation: Remove the person from the contaminated area to fresh air. If breathing is difficult, give oxygen. Seek medical attention immediately.

Ingestion: Get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim.

Note to Physicians: Prevent aspiration into lungs. Aspiration of even small amounts into lungs may result in aspiration pneumonitis.

Section 5: FIRE FIGHTING MEASURES

Flammability: When heated above flash point, material will release flammable vapors which can burn or be explosive in confined spaces if ignited. Do not mix with strong oxidants such as chlorine or concentrated oxygen

Means of Extinction:

Suitable Extinguishing Media: Carbon dioxide, dry chemical, chemical foam.

Unsuitable Extinguishing Media: Water spray may be ineffective, but may be used to cool closed containers.

Products of Combustion: Carbon dioxide (CO₂), carbon monoxide (CO) Nitrogen oxides, smokes and fumes.

Protection of Firefighters: Minimize breathing vapors, gases or fumes of decomposition products. Do not enter any enclosed or confined fire space without full protective equipment, including self contained breathing apparatus. Keep containers cool with water spray to prevent container rupture.

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Section 6: ACCIDENTAL RELEASE MEASURES

Methods for Containment: Dike or contain spill with earth, floor dry, sand etc. Ventilate the area.

Absorb spill with suitable absorbent material and place in a closed container.

Keep product out of sewers and waterways by diking or impounding. Advise authorities if product has entered or may enter sewers or waterways. Assure conformity with applicable governmental regulations.

Methods for Clean-Up: Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Collect and dispose in accordance with applicable regulations.

Section 7: HANDLING & STORAGE

Vapors are heavier than air and may travel along the ground or be moved by ventilation to locations distant from the point of material handling. To prevent from entering buildings or confined areas, close all air intake sources near the material handling or the work area.

Avoid prolonged or repeated inhalation of vapors or spray mists. Avoid prolonged or repeated skin contact. Adhere to good hygienic practices. Use with adequate ventilation.

Store in a cool, dry place, out of direct sunlight and away from heat, sparks, and flame.

Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

Exposure Limits

Ingredient

ACGIH-TLV

Styrene-Ethylene/Butylene-Styrene Polymer	N/A
Hydrocarbon Resin	N/A
Dimethylbenzene	50 ppm
1-chloro-4-(trifluoromethyl)benzene	51 ppm
Solvent Naphtha	100 ppm
Calcium Carbonate Inhalable dust	10 mg/m ³
Titanium Dioxide	10 mg/m ³ (respirable)

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Engineering Controls: Use with adequate general and local exhaust ventilation. When used outdoors, stay well away from building air intakes or close and seal the intakes to prevent product from entering building.

Personal Protective Equipment:

Eye/Face Protection: Safety glasses with side shields or goggles recommended.

Hand Protection: Use with chemical-protective gloves to prevent skin contact.

Skin and Body Protection: Long sleeves & impervious clothing.

Respiratory Protection: Use a NIOSH-approved air purifying respirator with organic vapor cartridge. Use supplied-air respirator in confined areas or with vapors in high concentrations.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Creamy, viscous liquid

Color: White

Odour: Hydrocarbon odor

Odour Threshold: Not available

Physical State: Liquid

pH: 8.0 – 9.0

Viscosity: 5200 to 8500 cps

Boiling Point: 163°C (325°F)

Flash Point: 46°C (115°F)

Evaporation Rate: 0.8 (butyl acetate = 1.0)

Vapour Density: 3.7

Specific Gravity: 1.109

Solubility in Water: Negative

Coefficient of Water/Oil Distribution: Not available

Auto Ignition Temperature: Not applicable

VOC content, wt. %: 500 g/l

Section 10: STABILITY AND REACTIVITY

Stability: Stable

Incompatible Materials: Strong oxidizers

Hazardous Decomposition Products: Oxides of carbon, various hydrocarbon fragments

Possibility of Hazardous Reactions: Will not occur.

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Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

<u>Ingredient</u>	<u>LD50 (oral)</u>
Styrene-Ethylene/Butylene-Styrene Polymer	N/A
Hydrocarbon Resin	N/A
Dimethylbenzene	Rat 3000 mg/kg
1-chloro-4-(trifluoromethyl)benzene	Rat 13000 mg/kg
Solvent Naphtha	Rat 3000 mg/kg
Calcium Carbonate	Rat 6450 mg/kg
Titanium Dioxide (silica quartz)	Rat 500 mg/kg bw/Quartz (10-200 um)

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Eyes, Lungs, Kidneys, Liver, Nervous System

Chronic Effects:

Eye Contact: These products can be irritating to the eyes. The effect of prolonged eye contact is unknown.

Inhalation: Upper respiratory tract irritation. May cause nausea or dizziness. High vapour concentrations can cause central nervous system depression, liver and kidney damage.

Skin Contact: Prolonged or repeated exposure to skin can cause dermatitis.

Ingestion: Acute gastrointestinal tract irritation.

Carcinogenicity: None known

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: This product is not a severe marine pollutant, nor is it a marine pollutant solution or mixture with a concentration that is equal to or exceeds 10% by weight. This product therefore is not considered a marine pollutant,

Persistence / Degradability: Not available

Bioaccumulation / Accumulation: Not available

Mobility in Environment: Not available

Section 13: DISPOSAL CONSIDERATIONS

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Disposal Instructions: Dispose in accordance with applicable federal, provincial, state and local government regulations.

Section 14: TRANSPORTATION INFORMATION

TDG Classification: Not Restricted

Section 15: REGULATORY INFORMATION

Federal Regulations

Canadian: This product has been classified in accordance with the hazard criteria of the CPR. The MSDS contains all the information required by the CPR. WHMIS Classification: D2B – Toxic, B3 – Flammable

Ingredients – Canadian Regulatory Information

Silica quartz WHMIS - Ingredient Disclosure List

Zinc oxide (as zinc) WHMIS - Ingredient Disclosure List

Xylene WHMIS – Ingredient Disclosure List

HMIS – Hazardous Materials Identification System

Health - 2 Flammability – 2 Reactivity - 0

NFPA – National Fire Protection Association

Health - 2 Fire - 2 Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classifications:

Proper Shipping Name: Rubber Solution

Hazard Class and Division: 3

UN Number: 1263

Packing Group: III

Labels: 3

Transport Document Name: UN 1263, Paint Related Material, 3, PGIII FP 46C° (115F°)

WHMIS Hazard Symbols:



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SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration

ACGIH (G) American Conference of Governmental Industrial Hygienists

A1 – Confirmed human carcinogen

A2 – Suspected human carcinogen

A3 – Animal Carcinogen

A4 – Not Classifiable as a human carcinogen

A5 – Not suspected as a human carcinogen

IARC (1) International Agency for Research on Cancer

1 – The agent (mixture) is carcinogenic to humans

2A – The agent (mixture) is probably carcinogenic to humans: there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B – The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 – The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program

1 – Known to be carcinogens.

2 – Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Disclaimer: Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). Superior Polymers Inc.

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