

# SAFETY DATA SHEET

## Superior 450 Detailing Seam Sealer

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Issue Date:** March 15, 2015

**Revision Date:** August 10, 2017

**Product Name:** Superior 450 Detailing Seam Sealer

**Product Number:** AD450-5

**Product Use:** Roof Seam Sealant

**Uses Advised Against:** For exterior use only. Do not use indoors.

**Manufacturer:** Superior Polymers Inc.  
Box 2113, Angus, Ontario  
Canada L0M 1B0  
Tel: (705) 718-7332

**Emergency Phone:** 1-844-321-7332  
Chemtrec (800) 424-9300

### Section 2: HAZARDS IDENTIFICATION

**Classification:**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Carcinogenicity:** Category 2

**Specific target organ toxicity (repeated exposure):** Category 1

**Aspiration toxicity:** Category 1

**Flammable Liquids:** Category 3

**Label Elements:** Emergency Overview

**Hazard statements:**

Danger - Flammable liquid or vapour

Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure

May be fatal if swallowed and enters airways



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**Appearance:** White, Viscous

**Physical state:** Liquid

**Odour:** Solvent (Mineral Spirits, Xylenes)

### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Keep away from heat/sparks/open flames/hot surfaces.

Keep container tightly closed when product is not in use.

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

### **Precautionary Statements - Disposal**

Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

### **Hazards not otherwise classified (HNOC)**

Not applicable

### **Other Information**

- Causes mild skin irritation
- Toxic to aquatic life with long lasting effects
- Harmful to aquatic life

Unknown acute toxicity 29% of the mixture consists of ingredient(s) of unknown toxicity

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### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

**Substance****Mixture:**

This product is a mixture.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Common name:** Roof Sealant

**Synonyms:** None.

**Chemical nature:** Organic solvents and additives

<b>Ingredient</b>	<b>CAS#</b>	<b>WT. %</b>
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	20 - 40
Ethylbenzene	100-41-4	10 - 30

### Section 4: FIRST AID MEASURES

**Description of first aid measures**

**General advice** Contains petroleum distillate. Harmful or fatal if swallowed. Vapor harmful. May affect the brain or central nervous system causing dizziness, headache, or nausea. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

**Eye contact** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin contact** Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician.

**Inhalation** Move to fresh air in case of accidental inhalation of vapors. If continued difficulty with breathing is experienced, get medical attention immediately.

**Ingestion** Not an expected route of exposure. If swallowed, do not induce vomiting. Get medical attention immediately.

**Self-protection of the first aider** First aider: Pay attention to self-protection!

**Most important symptoms and effects, both acute and delayed**

**Symptoms** May cause skin irritation. May cause eye irritation.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

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### Section 5: FIRE FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Sand. Use foam or water FOG as a last resort.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**

Sealed container may rupture/burst when heated or exposed to excessive heat.

**Hazardous combustion products** Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes.

**Explosion data**

**Sensitivity to Mechanical Impact** Not sensitive.

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames.

**Protective equipment and precautions for firefighters**

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

### Section 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** No action should be taken involving any personal risk or without suitable training. Use personal protective equipment as required.

**Other Information** Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).

**For emergency responders** Use personal protection recommended in Section 8.

**Environmental precautions** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering sewers, drains, or waterways. Local authorities should be advised if significant spillages can not be contained. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Contain spillage with non-combustible absorbent material, e.g. sand, earth, diatomaceous earth, vermiculite.

**Methods for cleaning up** Pick up the absorbed material (described just above) and transfer to properly labeled containers for disposal according to local / national regulations (see Section 13).

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### Section 7: HANDLING & STORAGE

**Precautions for safe handling**

**Advice on safe handling** Use personal protective equipment as required. Remove all sources of ignition. Use only outdoors.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a cool, dry, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition.

**Incompatible materials** Strong acids. Strong oxidizing agents.

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### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** No ACGIH or OSHA PEL is assigned to this mixture. Exposure limits for the component materials are shown below. This product, as supplied, is not believed to contain any hazardous material that exceeds exposure limits established by OSHA.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Dimethylbenzene 1330-20-7	TWA: 100 ppm	TWA: 100 ppm	TWA: 100 ppm
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm	TWA: 100 ppm
Calcium Carbonate 471-34-1	-	-	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Titanium Dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>

#### Appropriate engineering controls

**Engineering Controls** Use natural cross ventilation, local (mechanical) pick-up, and/or general area mechanical cross ventilation. Ventilation pattern should be designed to prevent accumulation of asphalt vapors. Ventilation must be sufficient to maintain asphalt vapor concentrations below the TWA limits outlined above.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin and body protection:** Wear protective gloves and protective clothing that is resistant to chemical penetration.

**Respiratory protection:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.

**General Hygiene Considerations:** Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical state:** Liquid

**Appearance:** Viscous

**Color:** White

**Odour:** Hydrocarbon odor

**Odour Threshold:** 1-30 PPM. Odour thresholds vary greatly. Do not rely on odour threshold alone to determine potentially hazardous substances

**pH:** 8.0 – 9.0

**Viscosity:** 135,000 cps

**Density:** 9.26 lbs/gal

**Boiling Point (Range):** > 154 °C / 310 °F

**Flash Point:** > 46 °C / > 115 °F (Setaflash)

**Evaporation Rate:** 0.1 (butyl acetate = 1.0)

**Flammability (solid, gas):** No information available

**Flammability Limit in Air:** Flammable above 115 degrees F and 46 degrees C

**Upper flammability limit:** 7.0

**Lower flammability limit:** 1.6

**Vapor pressure** 0.3 (kPa) at 20°C

**Vapour Density:** 5.3

**Specific Gravity:** 1.11

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**Solubility in Water:** Negative

**Solubility in other solvents:** Soluble in aromatic and aliphatic solvents.

**Boiling point / boiling range:** > 154 °C / 310 °F

**Partition coefficient:** No information available

**VOC content:** less than 500 g/l

**Autoignition temperature:** 330 °C / 626 °F

**Decomposition temperature:** No information available

**Kinematic viscosity:** No information available

**Dynamic viscosity:** No information available

**Explosive properties:** Vapor accumulation could flash or explode if ignited.

**Oxidizing properties:** None

### Section 10: STABILITY AND REACTIVITY

**Reactivity:** Not Applicable

**Chemical stability:** Stable.

**Possibility of Hazardous Reactions:** None under normal use.

**Hazardous polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid:** Avoid static discharge. Avoid heat, sparks, and open flame.

**Incompatible materials:** Strong acids. Strong oxidizing agents.

**Hazardous Decomposition Products:** Combustion may produce carbon monoxide, carbon dioxide, and other asphyxiants.

### Section 11: TOXICOLOGY INFORMATION

#### Information on likely routes of exposure

**Product Information:** Toxicological testing has not been conducted for this product overall. Available toxicological data for individual ingredients are summarized below.

**Inhalation:** Avoid breathing vapors or mists.

**Eye contact:** Avoid contact with eyes. Contact with eyes may cause irritation.

**Skin contact:** May cause irritation.

**Ingestion:** If swallowed, do not induce vomiting. Get medical attention immediately. Not an expected route of exposure.

**Component Information** The IARC Monograph (Vol 93, 2010, Carbon Black, Titanium Dioxide, Talc) states: "No significant exposure to primary particles of Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints."

\* No significant exposure to Crystalline Silica (Quartz) is thought to occur during the use of products in which Crystalline Silica (Quartz) is bound to other materials, such as in paints and coatings. As one reference, see California Office of Health Hazard Assessment at: [http://www.oehha.org/prop65/CRNR\\_notices/safe\\_use/sylicasud2.html](http://www.oehha.org/prop65/CRNR_notices/safe_use/sylicasud2.html)

#### Component Analysis

Ingredient	LD50 (oral)	Dermal LD50	Inhalation LC50
Dimethylbenzene	Rat 3000 mg/kg	-	Rat 47635 mg/L - 4 h
Ethylbenzene	Rat 3500 mg/kg	Rabbit 15354 mg/kg	Rat 17.2 mg/L - 4 h
Calcium Carbonate	Rat 6450 mg/kg	-	-
Titanium Dioxide	Rat 10000 mg/kg	-	-

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**Information on toxicological effects:**

**Symptoms:** Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure:**

**Skin corrosion/irritation:** Can cause skin irritation.

**Serious eye damage/eye irritation:** Irritating to eyes.

**Irritation:** Irritating to eyes, respiratory system and skin.

**Corrosivity:** Not classified

**Sensitization:** May cause sensitization of susceptible persons

**Germ cell mutagenicity:** This product does not contain any ingredients that cause germ cell mutagenicity.

**Carcinogenicity:** The table below indicates whether each agency (ACGIH, IARC, NTP, or OSHA) has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC
Ethylbenzene 100-41-4	A3	Group 2B
Dimethylbenzene 1330-20-7	-	Group 3

**Reproductive toxicity:** None known.

**Developmental Toxicity:** None known.

**Teratogenicity** None known

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**Numerical measures of toxicity - No information available**

**The following values are calculated based on chapter 3.1 of the GHS document** For exterior use only. Do not use indoors.

**ATEmix (oral)** 9,574.00

**ATEmix (dermal)** 5,132.00

**ATEmix (inhalation-dust/mist)** 11.83

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### Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:**

Xylenes 1330-20-7

Ecotoxicity (aquatic and terrestrial, where available):

Fish: rainbow trout: LC50 = 13.5 mg/L; 96 Hr; unspecified  
 Fish: rainbow trout: LC50 = 8.5 mg/L; 96 Hr; static conditions  
 Fish: goldfish: LD50 = 13 mg/L; 24 Hr; unspecified  
 Fish: fathead minnow: LC50 = 46 mg/L; 1 Hr; Static bioassay  
 Fish: fathead minnow: LC50 = 16.1mg/L; 96 Hr; flow through conditions  
 Fish: bluegill: EC50 = 16.1mg/L; 48 Hr; flow through conditions  
 Water flea: EC50 = 3.82 mg/L; 24 Hr; flow through conditions  
 Photobacterium phosphoreum: EC50 = 0.0 084 mg/L; 24Hr microtox test

Ethylbenzene 100-41-4

Ecotoxicity (aquatic and terrestrial, where available):

Fish: rainbow trout: LC50 = 13.5 mg/L; 96 Hr; unspecified  
 Fish: rainbow trout: LC50 = 8.5 mg/L; 96 Hr; static conditions  
 Fish: goldfish: LD50 = 13 mg/L; 24 Hr; unspecified  
 Fish: fathead minnow: LC50 = 46 mg/L; 1 Hr; Static bioassay  
 Fish: fathead minnow: LC50 = 16.1mg/L; 96 Hr; flow through conditions  
 Fish: bluegill: EC50 = 16.1mg/L; 48 Hr; flow through conditions  
 Water flea: EC50 = 3.82 mg/L; 24 Hr; flow through conditions  
 Photobacterium phosphoreum: EC50 = 0.0 084 mg/L; 24Hr microtox test

**Persistence and degradability:** No information available.

**Bioaccumulation:** No information available.

Chemical Name	Partition Coefficient
Dimethylbenzene 1330-20-7	3.15
Ethylbenzene 100-41-4	3.118

**Other adverse effects:** No information available

### Section 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods:**

**Disposal of wastes** Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

**Contaminated packaging:** Do not reuse container.

Chemical Name	RCRA Basis for Listing	RCRA U Series Wastes
Dimethylbenzene 1330-20-7	Included in waste stream FO39	U239
Ethylbenzene 100-41-4	Included in waste stream	-

Chemical Name	California Hazardous Waste Status
Dimethylbenzene 1330-20-7	Toxic - Ignitable
Ethylbenzene 100-41-4	Toxic -Ignitable



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### Section 14: TRANSPORTATION INFORMATION

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

Proper Shipping Name: Rubber Solution

Hazard Class and Division: 3

UN Number: 1263

Packing Group: III

Labels: 3

### 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

Titanium Dioxide WHMIS - Ingredient Disclosure List

Ethylbenzene WHMIS - Ingredient Disclosure List

Dimethylbenzene WHMIS – Ingredient Disclosure List

Calcium Carbonate 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

### 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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