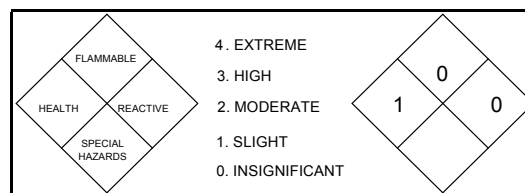


# MATERIAL SAFETY DATA SHEET

## ROOFING PRODUCTS INTERNATIONAL, INC.

### MSDS 400 RPI RE-FLEX COATING



### SECTION 1 – PRODUCT IDENTIFICATION

Product Name: <b>RPI Re-Flex Coating</b>		24 Hour Emergency Telephone Number: <b>800-424-9300 CHEMTREC</b>
Chemical Name/Synonyms: <b>Styrene/Acrylic White Coating</b>		Manufacturer's Name: <b>Roofing Products International, Inc.</b>
Chemical Family: <b>Mixture</b>	Product Code(s): <b>RC-1, RC-5</b>	Manufacturer's Address: <b>57460 Dewitt St., Elkhart, IN 46517-1078</b>
Chemical Formula: <b>Not Established</b>		NFPA Acute Hazard Rating: <b>Health 0, Flammability 0, Reactivity 0</b> HMIS Acute Hazard Rating: <b>Health 1, Flammability 0, Reactivity 0</b>

### SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	% (by wt)	Case No.	OSHA PEL	ACGIH TLV
<b>Ethylene Glycol</b>	<b>0-2</b>	<b>107-21-1</b>	<b>N/A</b>	<b>50ppm</b>
<b>Barium Metaborate</b>	<b>0-4</b>	<b>13701-59-2</b>	<b>N/A</b>	<b>.05mg/m<sup>3</sup></b>
<b>Silica Quartz (as dust)</b>	<b>0-0.15</b>	<b>14808-60-7</b>	<b>N/A</b>	<b>.1mg/m</b>
<b>Amorphous Silica (as dust)</b>	<b>0-0.6</b>	<b>7631-86-9</b>	<b>N/A</b>	<b>10mg/m</b>
<b>Proprietary polymers and other Non-hazardous ingredients</b>	<b>&gt; 58</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<b>Water</b>	<b>.35</b>	<b>732-18-5</b>	<b>N/A</b>	<b>N/A</b>
<b>Total</b>	<b>100</b>			

### SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: <b>Mild odor, white/other colors</b>	Physical State: <b>Liquid</b>	Solubility in Water: <b>N/A</b>
Boiling Point: <b>212° F</b>	Specific Gravity (HO=1) <b>1.03 (Water=1)</b>	Melting Point: <b>NA</b>
Vapor Pressure: <b>17.5 mm Hg@ 20° C(68° F)</b>	Vapor Density (Air=1) <b>&lt; 1</b>	Freezing Point: <b>Not Established</b>
Percent Volatiles: <b>40 %</b>	Evaporation Rate: (bbutyl Acetate=1) <b>&lt; 1</b>	Reactivity in Water: <b>Not Established</b>
pH (Full Strength) <b>Not Established</b>	pH (Recommended Dilution): <b>Not Established</b>	Refraction Index: <b>NA</b>

### SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: <b>N/A</b>	Auto-Ignition Temperature: <b>Not self-igniting</b>	Flammable Limits (in air): <b>LEL: 0.9</b>
Extinguishing Media: <b>Dry chemical, carbon dioxide, water fog or foam. Water should be used to keep fire exposed containers cool.</b>		Method Used: <b>Estimate based on the flash point of the most volatile component.</b>
Special Fire & Explosion Hazards: <b>None</b>		Fire Fighting Procedures: <b>None Established</b>
Hazardous Decomposition Products: <b>Carbon Dioxide, Carbon Monoxide, acrid smoke and irritating fumes.</b>		

## SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit:

**Not Established**

Effects of Overexposure:

**Medical Conditions Aggravated By Exposure.**

**Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions.**

Acute:

**Irritation to eyes, lungs, and mucous membranes**

Chronic:

**None**

Chemical Listed as a Carcinogen (or Potential Carcinogen):

National Toxicology Program: **NO**

L.A.R.C. Monographs: **NO**

OSHA: **NO**

Signs and Symptoms of Exposure:

**Eye contact may cause eye irritation, redness, tearing and blurred vision. Prolonged skin contact may cause irritation, dermatitis and drying of the skin. Sensitive individuals may exhibit eye, nose, throat or dermal irritation with prolonged exposure to processing fumes or vapors.**

Emergency & First Aid Procedures:

Eye Contact:

**Hold eyes open and flush immediately with a gentle stream of water for at least 15 minutes, preferable at an eyewash fountain. Call physician**

Skin Contact:

**Clean with affected area with soap and water.**

Inhalation:

**Remove to fresh uncontaminated air. Administer oxygen or artificial respiration, if necessary. Call physician.**

Ingestion:

**Consult a Physician. DO NOT INDUCE VOMITING**

Primary Route of Entry:

**Inhalation, eys, skin absorption.**

## SECTION 6 – REACTIVITY DATA

Stability:

**Stable at ambient temperatures and pressures**

Incompatibility:

**None known**

Hazardous Decomposition Products:

**None known**

Hazardous Polymerization:

**NA**

Conditions to Avoid:

**N/A**

## SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Small spill:

**Absorb using inert material. Use non-sparking tools. Transfer into proper container for disposal. Use protective equipment as outlined below.**

Large Spill:

**Same as small spill.**

Waste Disposal Method:

**Dispose of as a hazardous waste in accordance with EPA/RCRA regulations 40CFR261 21(a) (1) Ignitability: D001**

## SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: <b>In areas with inadequate ventilation, the use of a NIOSH-Certified respiratory protection for organic vapor is recommended.</b>	Eye Protection: <b>Impervious glasses recommended</b> Protective Gloves: <b>Impervious gloves are recommended.</b>
Ventilation: <b>Provide adequate ventilation to maintain airborne concentrations below OSHA PELs.</b>	Other Protective Equipment: <b>Under normal application conditions, protective glasses, gloves, and clothing are adequate.</b>

## SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling: <b>Store in cool, dry, well ventilated facility. Store and use away from all sources of sparks, direct heat and ignition. Keep containers closed when not in use. Vapors of this material are heavier than air and will collect in low or confined areas. Empty containers can contain explosive vapors. Bond and ground all fixed and transfer equipment.</b>
Other Precautions: <b>Provide adequate ventilation and avoid prolonged or repeated contact with the skin. Wash with soap and water after contact.</b>
Work/Hygienic Practices: <b>Maintain good personal hygiene practices. Wash contaminated clothing before reuse. Do not eat, drink, or smoke in work areas. Wash exposed skin before eating, drinking, smoking, or applying cosmetics.</b>

## SECTION 10 - TRANSPORTATION

Regulatory Agency: <b>U.S.A., DOT</b>	Identification Number: <b>N/A</b>
Proper Shipping Name: <b>Adhesive</b>	Labels Required: <b>N/A</b>
Hazard Classification: <b>N/A</b>	Other Requirements: <b>None Known</b>
Packing Group: <b>N/A</b>	

## SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments: <b>None</b>
Date of Previous MSDS: <b>N/A</b>
Changes Since Previous MSDS: <b>None</b>
Telephone Number for Additional Information: <b>(574) 293-9096</b>

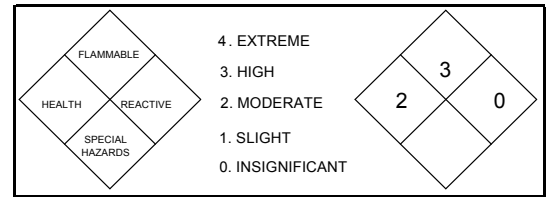
## DISCLAIMER

The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information is accurate, complete, or representative. Roofing Products International, Inc. assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons if reasonable safety procedures are not followed.

# MATERIAL SAFETY DATA SHEET

## ROOFING PRODUCTS INTERNATIONAL, INC.

### MSDS 401 RPI RE-FLEX COATING PRIMER



#### SECTION 1 – PRODUCT IDENTIFICATION

Product Name: <b>RPI Re-Flex Coating Primer</b>		24 Hour Emergency Telephone Number: <b>800-424-9300 CHEMTREC</b>
Chemical Name/Synonyms: <b>Butyl Rubber Adhesive</b>	Product Code: <b>RCP5</b>	Manufacturer's Name: <b>Roofing Products International, Inc.</b>
Chemical Family: <b>Mixture</b>	Manufacturer's Address: <b>57460 Dewitt St., Elkhart, IN 46517-1078</b>	
Chemical Formula: <b>Not Established</b>	NFPA Acute Hazard Rating: <b>Health 2, Flammability 3, Reactivity 0</b> HMIS Acute Hazard Rating: <b>Health 2, Flammability 3, Reactivity 0</b>	

#### SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	% (by wt)	Case No.	OSHA STEL	OSHA PEL	ACGIH TLV
<b>Heptane</b>	<b>42</b>	<b>142-82-5</b>	<b>TLV 500 PPM</b>	<b>500PPM</b>	<b>400PPM</b>
<b>Toluene</b>	<b>42</b>	<b>108-88-3</b>	<b>Ceiling 300PPM</b>	<b>200PPM</b>	<b>osha tlv 50PPM</b>
<b>Methyl Alcohol</b>	<b>16</b>	<b>67-56-1</b>	<b>ACGIH 250PPM</b>	<b>200PPM</b>	<b>200PPM</b>
<b>Nonhazardous as per 29 CFR 1910. 1200.</b>		<b>None</b>	<b>None Established</b>		

#### SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: <b>Thin clear liquid, aliphatic odor</b>	Physical State: <b>Liquid</b>	Solubility in Water: <b>Insoluble</b>
Boiling Point: <b>208° F</b>	Specific Gravity (HO=1) <b>0.791 (Water=1)</b>	Melting Point: <b>NA</b>
Vapor Pressure: <b>36 mm Hg@ 20° C</b>	Vapor Density (Air=1) <b>3.0-3.7</b>	Freezing Point: <b>Not Established</b>
Percent Volatiles: <b>83 %</b>	Evaporation Rate: <b>Unknown</b>	Reactivity in Water: <b>Not Established</b>
pH (Full Strength) <b>Not Established</b>	pH (Recommended Dilution): <b>Not Established</b>	Refraction Index: <b>NA</b>

#### SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: <b>25° F TCC</b>	Auto-Ignition Temperature: <b>Not Established</b>	Flammable Limits (in air): <b>LEL: 1.1%; UEL: 7%</b>
Extinguishing Media: <b>Dry chemical, carbon dioxide, water fog or foam. Water should be used to keep fire exposed containers cool.</b>	Fire Fighting Procedures: <b>Use water spray to cool adjacent surfaces and fire exposed containers. Protect against inhalation of combustion products.</b>	
Special Fire & Explosion Hazards: <b>Flammable liquid. Vapors are heavier than air and can flow along surfaces to ignition sources and flash-back. Keep work areas free from open flames, sparks, hot metal surfaces and other sources of ignition. Ground objects prone to static electricity.</b>	Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products. Toxic fumes and vapors may be involved.	
Hazardous Decomposition Products: <b>Carbon Dioxide, Carbon Monoxide, acrid smoke and irritating fumes.</b>	Method Used: <b>Estimate based on the flash point of the most volatile component.</b>	

## SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: <b>Not Established</b>	Signs and Symptoms of Exposure: <b>Eye contact may cause severe eye irritation, redness, tearing and blurred vision. Prolonged skin contact may cause irritation, dermatitis and drying of the skin. Other symptoms are dizziness, nausea or vomiting. Sensitive individuals may exhibit eye, nose, throat or dermal irritation with prolonged exposure to processing fumes or vapors. Inhalation may cause respiratory system irritation and central nervous system depression (Narcosis) fatigue. May cause unconsciousness if exposure is excessive. Brief (4 minutes) exposures to heptane at concentrations above 5000 ppm produce nausea, loss of appetite, and a gasoline-like taste that might persist hours after exposure.</b>	
Effects of Overexposure: <b>Medical Conditions Aggravated By Exposure. Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions.</b>		
Acute: <b>Irritation to eyes, lungs, and mucous membranes</b>		
Chronic: <b>Excess exposure can cause CNS depression, headache, nausea, narcosis, and liver and kidney damage.</b>		
Chemical Listed as a Carcinogen (or Potential Carcinogen): National Toxicology Program: <b>NO</b> L.A.R.C. Monographs: <b>NO</b> OSHA: <b>NO</b>		
Emergency & First Aid Procedures: Eye Contact: <b>Hold eyes open and flush immediately with a gentle stream of water for at least 15 minutes, preferable at an eyewash fountain. Call physician</b> Skin Contact: <b>Clean with rubbing alcohol, followed immediately by washing affected area with soap and water.</b> Inhalation: <b>Remove to fresh uncontaminated air. Administer oxygen or artificial respiration, if necessary. Call physician.</b> Ingestion: <b>Consult a Physician. DO NOT INDUCE VOMITING</b> Primary Route of Entry: <b>Inhalation, skin absorption.</b>		
Acute Oral LD50 <b>&gt;8 ML/KG (Rat)</b>	Acute Dermal LD50 <b>&gt;4 ML/KG (Rat)</b>	Acute Inhalation LC50 <b>3400 PPM/4H (Rat)</b>

## SECTION 6 – REACTIVITY DATA

Stability: <b>Stable at ambient temperatures and pressures</b>	Incompatibility: <b>Strong oxidizers, acids, bases.</b>
Hazardous Decomposition Products: <b>Partial combustion may release toxic gases or vapors, such as oxides of carbon and nitrogen along with traces of HCL.</b>	Hazardous Polymerization: <b>NA</b>
Conditions to Avoid: <b>Open flames, sparks, and closed areas that restrict adequate ventilation.</b>	

## SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Small spill: <b>Shut off and eliminate all ignition sources. Recover released product using inert materials such as sand, earth, or other suitable materials. Minimize skin contact. Use non-sparking tools. Ventilate confined spaces. Keep product clear of sewers, water, or extensive land areas. Assure conformity with applicable government regulations. Transfer into secure containers for proper disposal. Avoid static electricity build-up by grounding a fixed equipment and transfer containers. Use personal protective equipment as outlined below.</b>
Large Spill: <b>Same as small spill.</b>
Waste Disposal Method: <b>Dispose of as a hazardous waste in accordance with EPA/RCRA regulations 40CFR261 21(a) (1) Ignitability: D001</b>

## SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: <b>In areas with inadequate ventilation, the use of a NIOSH-Certified respiratory protection for organic vapor is recommended.</b>	Eye Protection: <b>Impervious glasses recommended</b> Protective Gloves: <b>Polyvinyl alcohol, nitrile rubber, or neoprene gloves are recommended to prevent skin contact.</b>
Ventilation: <b>Provide adequate ventilation to maintain airborne concentrations below OSHA PELs.</b>	Other Protective Equipment: <b>Under normal application conditions, protective glasses, gloves, and clothing are adequate.</b>

## SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling: <b>Store in cool, dry, well ventilated facility. Store and use away from all sources of sparks, direct heat and ignition. Keep containers closed when not in use. Vapors of this material are heavier than air and will collect in low or confined areas. Empty containers can contain explosive vapors. Bond and ground all fixed and transfer equipment.</b>
Other Precautions: <b>Provide adequate ventilation and avoid prolonged or repeated contact with the skin. Wash with soap and water after contact.</b>
Work/Hygienic Practices: <b>Maintain good personal hygiene practices. Wash contaminated clothing before reuse. Do not eat, drink, or smoke in work areas. Wash exposed skin before eating, drinking, smoking, or applying cosmetics.</b>

## SECTION 10 - TRANSPORTATION

Regulatory Agency: <b>U.S.A., DOT, IMO</b>	Identification Number: <b>N/A</b>
Proper Shipping Name: <b>Not regulated</b>	Labels Required: <b>N/A</b>
Hazard Classification: <b>N/A</b>	Other Requirements: <b>None Known</b>
Packing Group: <b>N/A</b>	

## SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments: <b>None</b>
Date of Previous MSDS: <b>None</b>
Changes Since Previous MSDS: <b>N/A</b>
Telephone Number for Additional Information: <b>(574) 293-9096</b>

## DISCLAIMER

The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information is accurate, complete, or representative. Roofing Products International, Inc. assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons if reasonable safety procedures are not followed.