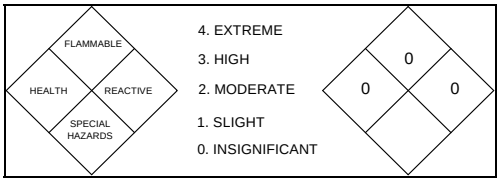
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 300 RE-FLEX TPO MEMBRANE AND ACCESSORIES
PIPE BOOTS, FLASHING STRIPS, COATED METAL FLASHINGS
T-PATCHES, PRE-FORMED CORNERS



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI RE-FLEX TPO (products trade name on label)**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Thermo Plastic Olifin**	Manufacturer's Name: **Roofing Products International, Inc.**
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	% wt or % vol	Case No.	% wt or % vol	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Hazardous Components 1% or greater; Carcinogens 0.1% or greater:						
Solids (by weight)						
Non-Hazardous Ingredients	**100**					
Total	**100**					

There are no recognized hazards associated with normal use of this product.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White solid with no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **350 °F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point:
N/A

Flammable Limits (in air):
LEL: N/A UEL: N/A

Extinguishing Media:
Dry chemical and CO^2 can also be used.

Fire Fighting Procedures:
Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products. .

Hazardous Decomposition Products:
In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.

Special Fire & Explosion Hazards:
None

Method Used:
Estimate based on flash point of most volatile component.

Auto-Ignition Temperature:
600-770°F

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit:
N/A

Signs and Symptoms of Exposure:
Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.

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

Carcinogenicity:
IARC, NTP, and OSHA do not list this product as a carcinogen.

Acute:
N/A

Chronic:
N/A

Emergency & First Aid Procedures:

Eye Contact:
Can cause irritation, redness, tearing, blurred vision.

Skin Contact:
Not normally hazardous

Inhalation:
Not normally hazardous unless at elevated temperatures. Remove to fresh air.

Ingestion:
Induce vomiting. Consult a Physician

Primary Route of Entry:
None

SECTION 6 – REACTIVITY DATA

Stability:
Stable

Incompatibility:
None

Hazardous Decomposition Products:
Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.

Hazardous Polymerization:
Will not occur

Conditions to Avoid:
N/A

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:
Scoop or shovel material into sealed containers.

Large Spill:
Same as small spill.

Waste Disposal Method:
If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **NA**	Eye Protection: **Safety glasses with side shields recommended.**
Protective Gloves: **Not Required**	Other Protective Equipment: **None required under normal installation conditions.**
Ventilation: **No respirator needed.**	

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory**	Identification Number: **Not Applicable**
Proper Shipping Name: **Not Applicable**	Labels Required: **Not Applicable**
Hazard Classification: **EPA SARA Title III hazard class (40CFR370): None** **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

DISCLAIMER

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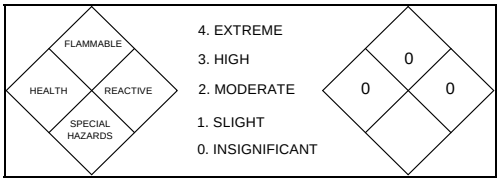
MATERIAL SAFETY DATA SHEET

ROOFING PRODUCTS INTERNATIONAL, INC.

MSDS 301 RE-FLEX TPO WALKWAY PAD ROLLS



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RE-FLEX TPO Walkway Pad Rolls**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Mixture** / Product Code: **TWP**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **N/A**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names) **Hazardous Components 1% or greater; Carcinogens 0.1% or greater:**	% wt or %vol	OSHA PEL	ACGIH TLV
Marble White CAS # 1317-65-3	**50-65**	**15 mg/m³**	**10 mg/m³**
Phthalate/Terephthalate Plasticizers	**7-9**	**N.E.**	**N.E.**
Polyolifinic Polymers	**40-60**	**N.E.**	**N.E.**
Chromium Compounds	**>0.47**	**0.5 mg/m³**	**0.5mg/m³**
Lead Compounds	**>0.47**	**0.5 mg/m³**	**0.5mg/m³**
Color Concentrate (Carbon Black)	**1-2**	**3.5 mg/m³**	**3.5mg/m³**
Non-Hazardous Ingredients			
Total	**100**		

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **Composite plastic with no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **1.43**	Melting Point: **Softens @ 250° F-300° F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **N/A**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Fire Fighting Procedures: **Standard procedures with self-contained air breathing apparatus**
Hazardous Decomposition Products: **In the event of combustion, carbon monoxide, smoke, carbon compound and other toxic products may be released.**	Special Fire & Explosion Hazards: **None**
Method Used: **N/A**	Auto-Ignition Temperature: **N/A**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **N/A**	Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.
Chronic: **Contains a maximum of 0,8% crystalline silica which is listed as a carcinogen. Contains encapsulated lead and chromium compounds which are listed as carcinogens**.	

Emergency & First Aid Procedures:

Eye Contact:

Dust particles that may occur can cause irritation, redness.

Skin Contact:

Not normally hazardous

Inhalation:

Inhalation of dust particles may irritate the respiratory system.

Ingestion:

Induce vomiting. Consult a Physician

Primary Route of Entry:

None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide and other toxins may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Scoop or shovel material into sealed containers.

Large Spill:

Same as small spill.

Waste Disposal Method:

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection:	Eye Protection:
NA	**Safety glasses with side shields recommended.**
Protective Gloves:	Other Protective Equipment:
Not Required	**None required under normal installation conditions.**

Ventilation:

No respirator needed.

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:

Store in cool, dry, well ventilated facility.

Other Precautions:

Store material in original shipping packaging.

Work/Hygenic Practices:

Maintain good personal hygiene practices. Product is easily removed with waterless havd cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency:	Identification Number:
Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory	**Not Applicable**
Proper Shipping Name:	Labels Required:
Not Applicable	**Not Applicable**
Hazard Classification:	Other Requirements:
N/A	**Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:

None

Date of Previous MSDS:

06-2003

Changes Since Previous MSDS:

Comment change in sections: 1 thru 7
Add sections: 8 thru 11

Telephone Number for Additional Information:

(574) 293-9096

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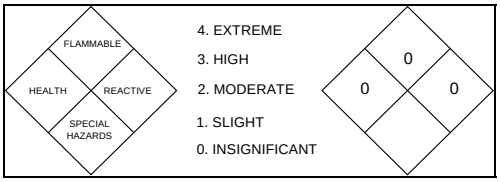
MATERIAL SAFETY DATA SHEET

ROOFING PRODUCTS INTERNATIONAL, INC.

MSDS 302 RE-FLEX TPO UN-REINFORCED FLASHING MEMBRANE



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI RE-FLEX TPO Un-reinforced Flashing Membrane**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Thermo Plastic Olifin** Product Code: **TDM2450**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	% wt or % vol	Case No.	% wt or % vol	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Hazardous Components 1% or greater; Carcinogens 0.1% or greater:						
Solids (by weight)						
Non-Hazardous Ingredients	**100**					
Total	**100**					

There are no recognized hazards associated with normal use of this product.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White solid with no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **350 °F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **N/A**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.** .
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **600-770°F**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **N/A**	Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.
Chronic: **N/A**	

Emergency & First Aid Procedures:

Eye Contact:

Can cause irritation, redness, tearing, blurred vision.

Skin Contact:

Not normally hazardous

Inhalation:

Not normally hazardous unless at elevated temperatures. Remove to fresh air.

Ingestion:

Induce vomiting. Consult a Physician

Primary Route of Entry:

None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Scoop or shovel material into sealed containers.

Large Spill:

Same as small spill.

Waste Disposal Method:

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection:	Eye Protection:
NA	**Safety glasses with side shields recommended.**
Protective Gloves: **Not Required**	Other Protective Equipment: **None required under normal installation conditions.**

Ventilation:
No respirator needed.

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency:	Identification Number:
Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory	**Not Applicable**
Proper Shipping Name: **Not Applicable**	Labels Required: **Not Applicable**
Hazard Classification: **EPA SARA Title III hazard class (40CFR370): None** **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

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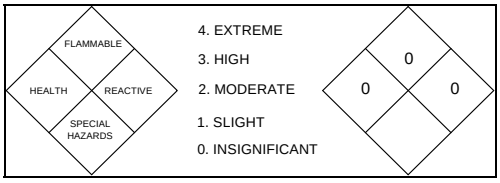
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 303 RE-FLEX TPO T-PATCH HW (HEAT WELD)



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI RE-FLEX TPO T-PATCH HW (Heat Weld)**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Thermo Plastic Olifin** / Product Code: **TTJP**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	% wt or % vol	Case No.	% wt or % vol	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Hazardous Components 1% or greater; Carcinogens 0.1% or greater:						
Solids (by weight)						
Non-Hazardous Ingredients	**100**					
Total	**100**					

There are no recognized hazards associated with normal use of this product.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White solid with no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **350 °F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **N/A**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.** .
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **600-770°F**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **N/A**	Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.
Chronic: **N/A**	

Emergency & First Aid Procedures:

Eye Contact:

Can cause irritation, redness, tearing, blurred vision.

Skin Contact:

Not normally hazardous

Inhalation:

Not normally hazardous unless at elevated temperatures. Remove to fresh air.

Ingestion:

Induce vomiting. Consult a Physician

Primary Route of Entry:

None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Scoop or shovel material into sealed containers.

Large Spill:

Same as small spill.

Waste Disposal Method:

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **NA**	Eye Protection: **Safety glasses with side shields recommended.**
Protective Gloves: **Not Required**	Other Protective Equipment: **None required under normal installation conditions.**
Ventilation: **No respirator needed.**	

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory**	Identification Number: **Not Applicable**
Proper Shipping Name: **Not Applicable**	Labels Required: **Not Applicable**
Hazard Classification: **EPA SARA Title III hazard class (40CFR370): None** **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

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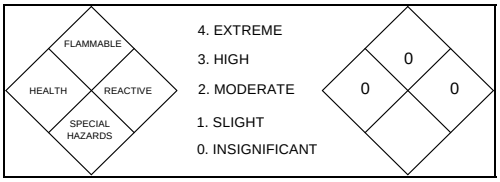
MATERIAL SAFETY DATA SHEET

ROOFING PRODUCTS INTERNATIONAL, INC.

MSDS 304 RE-FLEX TPO OUTSIDE CORNER HW (HEAT WELD)



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI RE-FLEX TPO OUTSIDE CORNER HW (Heat Weld)**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Thermo Plastic Olifin** Product Code: **TOC**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	% wt or % vol	Case No.	% wt or % vol	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Hazardous Components 1% or greater; Carcinogens 0.1% or greater:						
Solids (by weight)						
Non-Hazardous Ingredients	**100**					
Total	**100**					

There are no recognized hazards associated with normal use of this product.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White solid with no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **350 °F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **N/A**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.** .
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **600-770°F**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **N/A**	Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.
Chronic: **N/A**	

Emergency & First Aid Procedures:

Eye Contact:

Can cause irritation, redness, tearing, blurred vision.

Skin Contact:

Not normally hazardous

Inhalation:

Not normally hazardous unless at elevated temperatures. Remove to fresh air.

Ingestion:

Induce vomiting. Consult a Physician

Primary Route of Entry:

None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Scoop or shovel material into sealed containers.

Large Spill:

Same as small spill.

Waste Disposal Method:

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **NA**	Eye Protection: **Safety glasses with side shields recommended.**
Protective Gloves: **Not Required**	Other Protective Equipment: **None required under normal installation conditions.**
Ventilation: **No respirator needed.**	

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory**	Identification Number: **Not Applicable**
Proper Shipping Name: **Not Applicable**	Labels Required: **Not Applicable**
Hazard Classification: **EPA SARA Title III hazard class (40CFR370): None** **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

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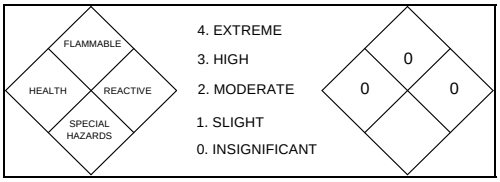
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 305 RPI RE-FLEX TPO PIPE BOOT HW (Heat Weld)



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI Re-Flexe TPO PIPE BOOT HW**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Thermo Plastic Olifin** / Product Code: **TPB**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	% wt or % vol	Case No.	% wt or % vol	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Hazardous Components 1% or greater; Carcinogens 0.1% or greater:						
Solids (by weight)						
Non-Hazardous Ingredients	**100**					
Total	**100**					

There are no recognized hazards associated with normal use of this product.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White solid with no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **350 °F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **N/A**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.** .
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **600-770°F**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **N/A**	Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.
Chronic: **N/A**	

Emergency & First Aid Procedures:

Eye Contact:

Can cause irritation, redness, tearing, blurred vision.

Skin Contact:

Not normally hazardous

Inhalation:

Not normally hazardous unless at elevated temperatures. Remove to fresh air.

Ingestion:

Induce vomiting. Consult a Physician

Primary Route of Entry:

None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Scoop or shovel material into sealed containers.

Large Spill:

Same as small spill.

Waste Disposal Method:

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **NA**	Eye Protection: **Safety glasses with side shields recommended.**
Protective Gloves: **Not Required**	Other Protective Equipment: **None required under normal installation conditions.**
Ventilation: **No respirator needed.**	

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory**	Identification Number: **Not Applicable**
Proper Shipping Name: **Not Applicable**	Labels Required: **Not Applicable**
Hazard Classification: **EPA SARA Title III hazard class (40CFR370): None** **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
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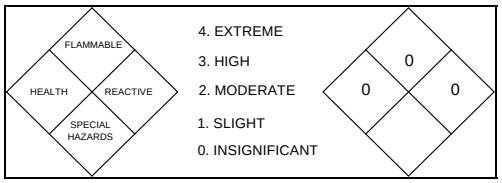
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 306 RPI RE-FLEX TPO INSIDE CORNER HW (HEAT WELD)



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI Re-Flex TPO INSIDE CORNER HW (Heat Weld)**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Thermo Plastic Olifin** / Product Code: **TIC**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names) **Hazardous Components 1% or greater; Carcinogens 0.1% or greater:**	% wt or % vol	Case No.	% wt or % vol	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Solids (by weight)						
Non-Hazardous Ingredients	**100**					
Total	**100**					

There are no recognized hazards associated with normal use of this product.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White solid with no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **350 °F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **N/A**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.** .
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **600-770°F**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **N/A**	Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.
Chronic: **N/A**	

Emergency & First Aid Procedures:

Eye Contact:

Can cause irritation, redness, tearing, blurred vision.

Skin Contact:

Not normally hazardous

Inhalation:

Not normally hazardous unless at elevated temperatures. Remove to fresh air.

Ingestion:

Induce vomiting. Consult a Physician

Primary Route of Entry:

None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Scoop or shovel material into sealed containers.

Large Spill:

Same as small spill.

Waste Disposal Method:

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **NA**	Eye Protection: **Safety glasses with side shields recommended.**
Protective Gloves: **Not Required**	Other Protective Equipment: **None required under normal installation conditions.**
Ventilation: **No respirator needed.**	

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory**	Identification Number: **Not Applicable**
Proper Shipping Name: **Not Applicable**	Labels Required: **Not Applicable**
Hazard Classification: **EPA SARA Title III hazard class (40CFR370): None** **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

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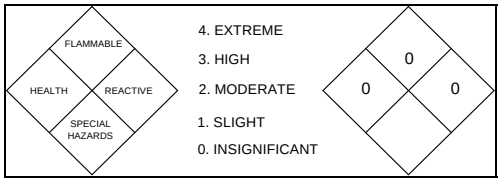
MATERIAL SAFETY DATA SHEET

ROOFING PRODUCTS INTERNATIONAL, INC.

MSDS 307 RPI RE-FLEX TPO COVER TAPE



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI Re-Flex TPO Cover Tape**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Thermo Plastic Olifin** / Product Code: **TCT6100/TCT5050**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names) **Hazardous Components 1% or greater; Carcinogens 0.1% or greater:**	% wt or % vol	Case No.	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Calcium Carbonate	**minimal**	**N/A**	**N/A**	**5 mg/m3**	**10 mg/m3**
Titanium Dioxide	**minimal**	**N/A**	**N/A**	**5 mg/m3**	**10 mg/m3**
Solids (by weight)					
Non-Hazardous Ingredients	**100**				
Total	**100**				

There are no recognized hazards associated with normal use of this product.
Calcium Carbonate and Titanium Dioxide are present however, they are encapsulated in the polymer and do not neccessarily reflect the hazards of the dry chemicals.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White solid with white tacky backing, no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **350 °F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **>200°C**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.** .
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **600-770°F**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **N/A**	Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.
Chronic: **N/A**	

Emergency & First Aid Procedures:

Eye Contact:

Can cause irritation, redness, tearing, blurred vision.

Skin Contact:

Not normally hazardous

Inhalation:

Not normally hazardous unless at elevated temperatures. Remove to fresh air.

Ingestion:

Induce vomiting. Consult a Physician

Primary Route of Entry:

None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Scoop or shovel material into sealed containers.

Large Spill:

Same as small spill.

Waste Disposal Method:

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **NA**	Eye Protection: **Safety glasses with side shields recommended.**
Protective Gloves: **Not Required**	Other Protective Equipment: **None required under normal installation conditions.**
Ventilation: **No respirator needed.**	

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory**	Identification Number: **Not Applicable**
Proper Shipping Name: **Not Applicable**	Labels Required: **Not Applicable**
Hazard Classification: **EPA SARA Title III hazard class (40CFR370): None** **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
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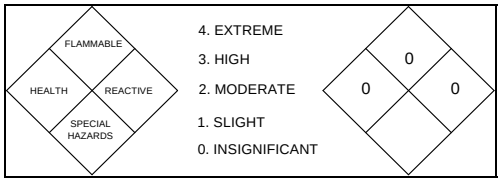
MATERIAL SAFETY DATA SHEET

ROOFING PRODUCTS INTERNATIONAL, INC.

MSDS 308 RPI RE-FLEX TPO OUTSIDE CORNER WITH TAPE



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI Royal Edge TPO Outside Corner With Tape**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Thermo Plastic Olifin** Product Code: **TOCWT**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names) **Hazardous Components 1% or greater; Carcinogens 0.1% or greater:**	% wt or % vol	Case No.	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Calcium Carbonate	**minimal**	**N/A**	**N/A**	**5 mg/m3**	**10 mg/m3**
Titanium Dioxide	**minimal**	**N/A**	**N/A**	**5 mg/m3**	**10 mg/m3**
Solids (by weight)					
Non-Hazardous Ingredients	**100**				
Total	**100**				

There are no recognized hazards associated with normal use of this product.
Calcium Carbonate and Titanium Dioxide are present however, they are encapsulated in the polymer and do not neccessarily reflect the hazards of the dry chemicals.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White solid with white tacky backing, no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **350 °F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **>200°C**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.** .
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **600-770°F**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **N/A**	Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.
Chronic: **N/A**	

Emergency & First Aid Procedures:

Eye Contact:

Can cause irritation, redness, tearing, blurred vision.

Skin Contact:

Not normally hazardous

Inhalation:

Not normally hazardous unless at elevated temperatures. Remove to fresh air.

Ingestion:

Induce vomiting. Consult a Physician

Primary Route of Entry:

None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Scoop or shovel material into sealed containers.

Large Spill:

Same as small spill.

Waste Disposal Method:

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **NA**	Eye Protection: **Safety glasses with side shields recommended.**
Protective Gloves: **Not Required**	Other Protective Equipment: **None required under normal installation conditions.**
Ventilation: **No respirator needed.**	

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory**	Identification Number: **Not Applicable**
Proper Shipping Name: **Not Applicable**	Labels Required: **Not Applicable**
Hazard Classification: **EPA SARA Title III hazard class (40CFR370): None** **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
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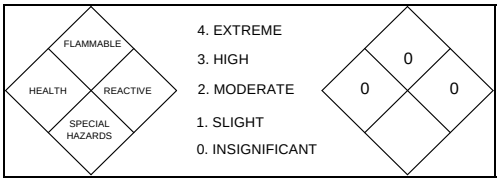
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 309 RPI RE-FLEX TPO PIPE BOOT WITH TAPE



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI Royal Edge TPO Pipe Boot With Tape**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Thermo Plastic Olifin** / Product Code: **TPBWT**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names) **Hazardous Components 1% or greater; Carcinogens 0.1% or greater:**	% wt or % vol	Case No.	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Calcium Carbonate	**minimal**	**N/A**	**N/A**	**5 mg/m3**	**10 mg/m3**
Titanium Dioxide	**minimal**	**N/A**	**N/A**	**5 mg/m3**	**10 mg/m3**
Solids (by weight)					
Non-Hazardous Ingredients	**100**				
Total	**100**				

There are no recognized hazards associated with normal use of this product.
Calcium Carbonate and Titanium Dioxide are present however, they are encapsulated in the polymer and do not neccessarily reflect the hazards of the dry chemicals.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White solid with white tacky backing, no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **350 °F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **>200°C**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.** .
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **600-770°F**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **N/A**	Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.
Chronic: **N/A**	

Emergency & First Aid Procedures:

Eye Contact:

Can cause irritation, redness, tearing, blurred vision.

Skin Contact:

Not normally hazardous

Inhalation:

Not normally hazardous unless at elevated temperatures. Remove to fresh air.

Ingestion:

Induce vomiting. Consult a Physician

Primary Route of Entry:

None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Scoop or shovel material into sealed containers.

Large Spill:

Same as small spill.

Waste Disposal Method:

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **NA**	Eye Protection: **Safety glasses with side shields recommended.**
Protective Gloves: **Not Required**	Other Protective Equipment: **None required under normal installation conditions.**
Ventilation: **No respirator needed.**	

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory**	Identification Number: **Not Applicable**
Proper Shipping Name: **Not Applicable**	Labels Required: **Not Applicable**
Hazard Classification: **EPA SARA Title III hazard class (40CFR370): None** **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

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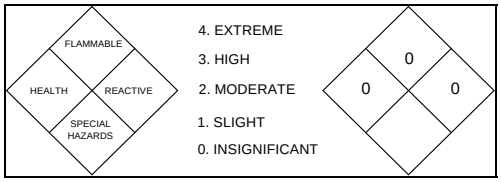
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 310 RPI RE-FLEX TPO SEAM TAPE



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI RPI Re-Flex TPO Seam Tape**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Thermo Plastic Olifin** Product Code: **TST3100**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names) **Hazardous Components 1% or greater; Carcinogens 0.1% or greater:**	% wt or % vol	Case No.	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Calcium Carbonate	**minimal**	**N/A**	**N/A**	**5 mg/m3**	**10 mg/m3**
Titanium Dioxide	**minimal**	**N/A**	**N/A**	**5 mg/m3**	**10 mg/m3**
Solids (by weight)					
Non-Hazardous Ingredients	**100**				
Total	**100**				

There are no recognized hazards associated with normal use of this product.
Calcium Carbonate and Titanium Dioxide are present however, they are encapsulated in the polymer and do not neccessarily reflect the hazards of the dry chemicals.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White, solid and tacky with no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **350 °F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **>200°C**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.** .
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **600-770°F**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **N/A**	Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.
Chronic: **N/A**	

Emergency & First Aid Procedures:

Eye Contact:

Can cause irritation, redness, tearing, blurred vision.

Skin Contact:

Not normally hazardous

Inhalation:

Not normally hazardous unless at elevated temperatures. Remove to fresh air.

Ingestion:

Induce vomiting. Consult a Physician

Primary Route of Entry:

None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Scoop or shovel material into sealed containers.

Large Spill:

Same as small spill.

Waste Disposal Method:

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **NA**	Eye Protection: **Safety glasses with side shields recommended.**
Protective Gloves: **Not Required**	Other Protective Equipment: **None required under normal installation conditions.**
Ventilation: **No respirator needed.**	

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory**	Identification Number: **Not Applicable**
Proper Shipping Name: **Not Applicable**	Labels Required: **Not Applicable**
Hazard Classification: **EPA SARA Title III hazard class (40CFR370): None** **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

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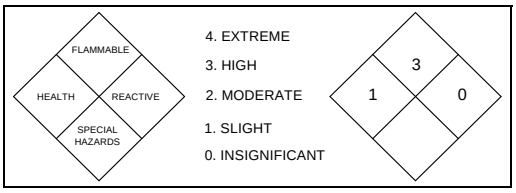
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 311 RPI RE-FLEX TPO PRIMER/ACTIVATOR



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI R-Flex TPO Primer/Activator**		24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Butyl Rubber Adhesive**	Product Code: **TPA1/TPAQT/TPA3**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**		Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **Not Established**		NFPA Acute Hazard Rating: **Health 1, Flammability 3, Reactivity 0** HMIS Acute Hazard Rating: **Health 1, Flammability 3, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	Case No.	% by Weight	OSHA PEL	ACGIH TLV
Light Aliphatic Solvent Naphtha	**64742-89-8**	**40-60**	**500 ppm**	**300 ppm**
Aromatic Hydrocarbon Solvent	**108-88-3**	**20-40**	**200 ppm**	**100 ppm**

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **Thin clear liquid, aliphatic odor**	Physical State: **Liquid**	Solubility in Water: **Insoluble**
Boiling Point: **185°F**	Specific Gravity (HO=1) **0.75-0.81 (Water=1)**	Melting Point: **NA**
Vapor Pressure: **38 mm Hg@ 20°C, 68°F**	Vapor Density (Air=1) **3.6**	Freezing Point: **Not Established**
Percent Volatiles: **85 %**	Evaporation Rate: **(ethyl ether = 1): 3.5**	Reactivity in Water: **Not Established**
pH (Full Strength) **Not Established**	Percent Solids (by weight): **15%**	VOC: **645 grams/liter**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **18° F TCC**	Flammable Limits (in air): **LEL: 1.2%; UEL: NA**
Extinguishing Media: **Dry chemical, carbon dioxide, water fog or foam. Water should be used to keep fire exposed containers cool.**	Fire Fighting Procedures: **Use water spray to cool adjacent surfaces and fire exposed containers. Protect against inhalation of combustion products. Treat as "Class B" fire.** **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: **Carbon Dioxide, Carbon Monoxide, acrid smoke and irritating fumes.**	Special Fire & Explosion Hazards: **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.**
Method Used: **Estimate based on the flash point of the most volatile component.**	Auto-Ignition Temperature: **Not Established**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **Not Established**	Signs and Symptoms of Exposure: **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 repiratory system irritation and central nervous system depression (Narcosis) fatigue.**
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**	Chemical Listed as a Carcinogen (or Potential Carcinogen): National Toxicology Program: **NO** L.A.R.C. Monographs: **NO** OSHA: **NO**
Chronic: **Excess exposure can cause CNS depression, headache, nausea, narcosis, and liver and kidney damage.**	

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 rubbing alcohol, followed immediately by washing 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, skin absorption.

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 rubbing alcohol, followed immediately by washing 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, skin absorption.

SECTION 6 – REACTIVITY DATA

Stability: **Stable at ambient temperatures and pressures**	Incompatibility: **Strong oxidizers, acids, bases.**
Hazardous Decomposition Products: **Partial combustion may release toxic gases or vapors, such as oxides of carbon and nitrogen along with traces of HCL.**	Hazardous Polymerization: **Will not occur.**

Conditions to Avoid:
Open flames, sparks, and closed areas that restrict adequate ventilation.

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Large Spill:
Same as small spill.

Waste Disposal Method:
Dispose of as a hazardous waste in accordance with EPA/RCRA regulations 40CFR261 21: Ignitability

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **In areas with inadequate ventilation, the use of a NIOSH-Certified respiratory protection for organic vapor is recommended.**	Eye Protection: **Impervious glasses recommended**
Protective Gloves: **Polyvinyl alcohol, nitrile rubber, or neoprene gloves are recommended to prevent skin contact.**	Other Protective Equipment: **Under normal application conditions, protective glasses, gloves, and clothing are adequate.**

Ventilation:
Provide adequate ventilation to maintain airborne concentrations below OSHA PELs.

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
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.

Other Precautions:
Provide adequate ventilation and avoid prolonged or repeated contact with the skin. Wash with soap and water after contact.

Work/Hygienic Practices:
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.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **U.S.A., DOT**	DOT Identification Number: **UN1133**
DOT Proper Shipping Name: **Adhesive**	DOT Labels Required: **Adhesives, containing flammable Liquid**
DOT Hazard Classification: **3**	DOT Packing Group: **II**

EPA SARA Title III (40CFR355): There are no components present in the product at a level which would require reporting.
This product contains a chemical that is listed on the following states hazardous material list.
Pennsylvania Hazardous Substance List: YES
New Jersey Workplace Hazardous Substance List: YES
Massachusetts Substance List: YES
Canada (WHMIS) Ingredient Disclosure List: YES
California Prop0osition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):
This product contains listed substances, which the State of California has found to cause cancer, birth defects, or other reproductive harm, which would require a warning under the statute. Toluene CAS 108-88-3

EPA SARA Title III Section 313 (40CFR372): Aromatic hydrocarbon solvent C.A.S. # 108-88-3 20-40%.

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
NA

Date of Previous MSDS:
August 2000

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

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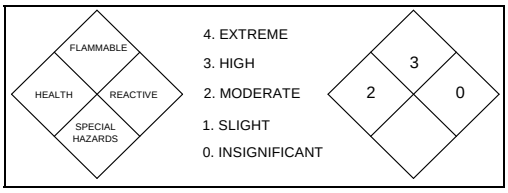
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 312 RPI RE-FLEX TPO CUT EDGE SEALANT



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI Re-Flex TPO Cut Edge Sealant**		24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **N/A**	Product Code: **TCES**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**		Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **Not Established**		NFPA Acute Hazard Rating: **Health 2, Flammability 3, Reactivity 0** HMIS Acute Hazard Rating: **Health 2, Flammability 3, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	Case No.	% by Weight	OSHA PEL	ACGIH TLV
Xylene	**1330-20-7**	**10-30**	**100 ppm**	**100 ppm**
Ethyl Benzene	**100-41-4**	**5-10**	**100 ppm**	**100 ppm**
Toluene	**108-88-3**	**0.1-1**	**200 ppm (300ppm ceiling)**	**20 ppm**
Stoddard Solvent	**8052-41-3**	**10-30**	**500 ppm**	**100 ppm**

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **Thin clear liquid, aliphatic odor**	Physical State: **Liquid**	Solubility in Water: N/A
Boiling Point: **212°F**	Specific Gravity (HO=1) **0.7 (Water=1)**	Melting Point: **N/A**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **Heavier than air**	Freezing Point: **Not Established**
Percent Volatiles: **55 %**	Evaporation Rate: **Slower than diethyl ether**	Reactivity in Water: **Not Established**
pH (Full Strength) **N/A**	Percent Solids (by weight): **15%**	VOC: **464 grams/liter**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **79° F TCC**	Flammable Limits (in air): **LEL: N/A ; UEL: NA**
Extinguishing Media: **NFPA Class B fire extinguishers. Dry chemical, carbon dioxide, water fog or foam. Water should be used to keep fire exposed containers cool. Polymer foam recommended for large fires.**	Fire Fighting Procedures: **Use water spray to cool adjacent surfaces and fire exposed containers. Protect against inhalation of combustion products. Treat as "Class B" fire.** **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: **Carbon Dioxide, Carbon Monoxide, acrid smoke and irritating fumes.**	Special Fire & Explosion Hazards: **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.**
Method Used: **Estimate based on the flash point of the most volatile component.**	Auto-Ignition Temperature: **Not Established**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **Not Established**	Signs and Symptoms of Exposure: **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 repiratory system irritation and central nervous system depression (Narcosis) fatigue.**
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**	Chemical Listed as a Carcinogen (or Potential Carcinogen): National Toxicology Program: **NO** I.A.R.C. Monographs: **Ethyl Benzene (CAS 100-41-4)** OSHA: **Ethyl Benzene (CAS 100-41-4)**
Chronic: **Excess exposure can cause CNS depression, headache, nausea, narcosis, and liver and kidney damage**.	

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:

Remove contaminated clothing and immediately and wash affected area with soap and water. Rinse thoroughly. Call a physician if irritation persists.

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, skin absorption.

SECTION 6 – REACTIVITY DATA

Stability: **Stable at ambient temperatures and pressures**	Incompatibility: **Strong oxidizers, acids, bases.**
Hazardous Decomposition Products: **Partial combustion may release toxic gases or vapors, such as carbon dioxide and carbon monoxide.**	Hazardous Polymerization: **Will not occur.**
Conditions to Avoid: **Temperatures in excess of 115°F. Open flames, sparks, and closed areas that restrict adequate ventilation.**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

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.

Large Spill:

Same as small spill.

Waste Disposal Method:

Dispose of as a hazardous waste in accordance with EPA/RCRA regulations 40CFR261 21: Ignitability

SECTION 8 – SPECIAL PROTECTION

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

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
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.

Other Precautions:
Provide adequate ventilation and avoid prolonged or repeated contact with the skin. Wash with soap and water after contact.

Work/Hygienic Practices:
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.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **U.S.A., DOT, IMO**	DOT Identification Number: **UN1133**
DOT Proper Shipping Name: **Adhesive**	DOT Labels Required: **Flammable Liquid**
DOT Hazard Classification: **3**	DOT Packing Group: **III**

EPA SARA reportable ingredients: Ethyl Benzene (CAS 100-41-4), Xylene (CAS 1330-20-7)
DOT reportable quantity: Xylene (CAS 330-20-7) -100 lbs. Ethyl Benzene (CAS 100-41-4)-1000 lbs.

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
NA

Date of Previous MSDS:
August 2000

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

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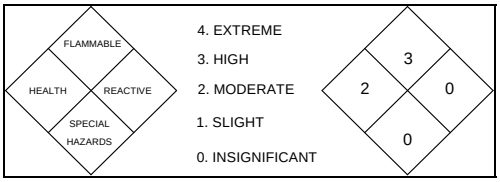
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 313 RPI RE-FLEX TPO HW MEMBRANE CLEANER



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI Re-Flex TPO HW Membrane Cleaner**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **N/A** — Product Code: **TMC**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 2, Flammability 3, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names) **Hazardous Components 1% or greater; Carcinogens 0.1% or greater:**	% wt or %vol	Case No.	OSHA PEL ACGIH	ACGIH TLV
Toluene	**0-1%**	**108-88-3**	**100 ppm STEL 150 ppm**	**50 ppm STEL 150 ppm**
Xylene	**79-82%**	**1330-20-7**	**750 ppm STEL 1000 ppm**	**50 ppm STEL 750 ppm**
Ethylbenzene	**18-20%**	**100-41-4**	**300 ppm STEL 400 ppm**	**300 ppm**
Total	**100**			

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **Clear colorless liquid with solvent odor.**	Physical State: **Liquid**	Solubility in Water: **< 0.08%**
Boiling Point: **279°F @ 760 mmHg**	Specific Gravity (HO=1) **.870 @ 60°F**	Melting Point: **N/A**
Vapor Pressure: **5.1 mmHg @ 68°F**	Vapor Density (Air=1) **3.66**	Freezing Point: **N/A**
Percent Volatiles: **0.7% maximum**	Evaporation Rate: **.86**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **80°F**	Flammable Limits (in air): **LEL: 1.0% UEL: 6.6%**
Extinguishing Media: **Dry chemical, regular foam, and Carbon Dioxide can be used**.	Fire Fighting Procedures: **Limit fire fighting to those trained to do so**. **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: **In the event of combustion, carbon dioxide, smoke, carbon compound and other decomposition products may be released.**	Special Fire & Explosion Hazards: **Material is highly volatile and gives off vapors which may travel along the ground or be moved by ventilation and ignited by static sparks, pilot lights, electric motors, welders, heaters, or other sources of ignition at far from the application point. Welding or cutting on or near empty containers may result in vapor ignition and explosions.**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **980°F**

SECTION- 5 HEALTH HAZARD DATA

Primary Routes of Entry: **Inhalation _X_ Skin Absorption_X_ Ingestion_X_ None___**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **Inhalation: Breathing large amounts of vapor or mist may be harmful. Symptoms usually occur at air concentration higher than the recommended exposure limits.** **Ingestion: Swallowing this material may be harmful. Material may get into the lungs during swallowing or vomiting causing lung inflammation and injury.** **Eyes: May cause eye irritation. Symptoms include stinging, tearing, and redness.** **Skin: Can cause skin irritation. Prolonged or repeated contact can dry the skin. Symptoms include drying and cracking, burns, and other skin damage. Although unlikely during safe handling and use, material can be absorbed thru the skin.**	Chronic: **Overexposure to this material (or its components), has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, and mild reversible kidney effects with kidney damage and cardiac sensitization.** **This material (or a component) has been shown to cause defects in laboratory animal studies. The relevance to humans is uncertain. This material has not caused cancer in laboratory animals.** **Ethylbenzene has been shown to cause cancer in laboratory animals but the relevance of this finding to humans is unclear. IARC (International Agency for Research on Cancer) has classified ethylbenzene as a possible human carcinogen.** **Benzene: Know to the state of California to cause cancer.** **Benzene and Toluene: Known to the state of California to cause reproductive harm.**
Carcinogen Listed In: **NTP____ IARC Monograph____ OSHA____ Not Listed _X_**	

Emergency & First Aid Procedures:

Eye Contact: Move individual away from exposure and into fresh air. Flush eyes gently with clean water for at least 15 minutes while holding eyelids apart. If symptoms persist, seek medical attention.

Skin Contact: Remove contaminated clothing. Flush exposed area with large amounts of clean water. If skin is damaged, seek medical attention. If symptoms persist, seek medical attention. Launder or properly dispose of contaminated clothing.

Inhalation: If symptoms develop, immediately move the individual away from exposure into fresh air. Seek immediate medical attention. If breathing is difficult, administer oxygen. If the person is not breathing, begin artificial respiration.

Ingestion: Seek medical attention. If individual is drowsy or unconscious, place the individual on the left side with the head down. Do not give anything by mouth. Contact a physician, medical facility, or poison control center for advice about wether to induce vomiting. Do not leave the individual un-attended.

Note to Physicians:

Inhalation of high concentrations of this material, may be associated with cardiac arrhythmias. Sympathomimetic drugs my initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity. (See section on Ingestion) when deciding wether to induce vomiting. Pre-existing disorders of the following organs, (or organ systems) may be aggravated by exposure to this material: skin, lung (asthma-like conditions), liver, kidney, and auditory system. Individuals with pre-existing heart disorders may be more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

SECTION 6 – REACTIVITY DATA

Stability:	Incompatibility:
Stable	**Strong oxidizing agents.**
Hazardous Decomposition Products: **Carbon monoxide, carbon monoxide, and various hydrocoarbons.**	Hazardous Polymerization: **Will not occur**

Conditions to Avoid:

Fires, sparks, static electricity, and confined areas without ventilation.

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill: **Eliminate all sources of ignition such as flares, electrical sparks, flames, and pilot lights. Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to proper collection containers.**

Large Spill:

Stop spill at source. Eliminate all sources of flames, electrical sparks, and pilot lights. Persons not wearing protective equipment should be excluded from the spill and clean-up area until clean-up is complete. Prevent materials from entering drains, sewers, streams or other bodies of water. Prevent the spreading of spilled material. Using proper equipment, transfer spilled material to clean recovery containers. Absorb unrecoverable product and transfer the contaminated absorbent soil, debris, and other materials to containers for disposal. Promptly notify the proper authorities that a spill has occurred.

Waste Disposal Method:

Destroy by liquid incineration in accordance with applicable local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection:	Eye Protection:
If vapors exceed TLV, use self contained organic mask MSHA/NIOSH approved.	**Safety glasses with side shields are recommended.**
Protective Gloves: **Chemical resistant gloves.**	Other Protective Equipment: **None required under normal installation conditions.**

Ventilation: **Local Exhaust __X___ Sufficient to keep vapors below TLV or PEL**

Mechanical (General) to maintain exposure below TLV ___X___

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:

Store in cool, dry, well ventilated facility. Containers of this material may be hazardous when emptied. Emptied containers retain product residues (vapor, liquid, and/or solids). All hazard precautions given in the data sheet must be observed. All five gallon pails including larger containers such as tanker trucks, tank cars, must be properly grounded against static electricity. Hydrocarbon solvents are non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If the charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids.

Warning: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature or pressure, or sudden ingress of air into vacuum equipment may result in explosions or ignitions without the presence of obvious ignition sources.

Other Precautions:

Store material in cool dry areas in original shipping packaging.

SECTION 10 – TRANSPORTATION

Regulatory Agency: **Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory**	Identification Number: **Not Applicable**
Proper Shipping Name: **Not Applicable**	Labels Required: **Not Applicable**
Hazard Classification: **EPA SARA Title III hazard class (40CFR370): None** **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:

None

Date of Previous MSDS:

October 10, 2006

Changes Since Previous MSDS:

Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:

(574) 293-9096

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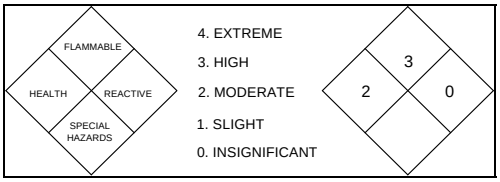
MATERIAL SAFETY DATA SHEET

ROOFING PRODUCTS INTERNATIONAL, INC.

MSDS 314 RPI ROYAL EDGE WATER CUT-OFF MASTIC



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **Royal Edge Water Cut-Off Mastic**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **None** / Product Code: **WCOM**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **NA**	NFPA Acute Hazard Rating: **Health 1, Flammability 3, Reactivity 0** HMIS Acute Hazard Rating: **Health 2, Flammability 3, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	Common Name	Case No.	% wt or % vol	OSHA STEL	OSHA PEL	ACGIH TLV
Heptane	**None**	**142-82-5**	**14**	**500PPM**	**500PPM**	**400PPM**
Calcium Carbonate	**Limestone**	**1317-65-3**	**<3**		**5 mg/m³** (Respirable) **15 mg/m³** (Total)	**2 mg/m³** (Respirable)
Kaolin	**Clay**	**1332-58-7**	**>3**		**5 mg/m³** (Repsirable) **15 mg/m³** (Total)	**2 mg/m³** (Respirable)
Non-hazardous as per 29 CFR 1910.1200	**None**	**EPA TSCA**	**<80**		**None Established**	

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **Grey viscous paste, aliphatic odor**	Physical State: **Paste**	Solubility in Water: **Insoluble**
Boiling Point: **200°F**	Specific Gravity (Water=1) **1.33**	Melting Point: **NA**
Vapor Pressure: **45mm Hg @20°C**	Vapor Density (Air=1) **3.4 (Air=1)**	Freezing Point: **Not Established**
Percent Volatiles: **25.5%**	Evaporation Rate: **4.5 (Butyl Acetate=1)**	Reactivity in Water: **NA**
pH (Full Strength) **Not Established**	pH (Recommended Dilution): **Not Established**	Refraction Index: **NA**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **14°F**	Flammable Limits (in air): **LEL 1.0% UEL 7.0%**
Extinguishing Media: **Carbon Dioxide, foam, sand/earth. Dry chemical and foam can also be used. If material has ignited, use water spray to disperse vapors and protect firefighters. Water may be used to flush spills away from exposures.**	Fire Fighting Procedures: **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. Use water spray to cool adjacent surfaces and fire-exposed containers only. Protect against inhalation of combustion products.**
Method Used: **Tagliabue closed tester**	Auto-Ignition Temperature: **Unknown**
Hazardous Decomposition Products: **Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, and Sulfur Dioxide.**	Special Fire & Explosion Hazards: **Cool heated containers with water stream. Keep away from open flames and sparks. Heated containers release fumes that settle in low areas and explode.**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **Not Established**	Signs and Symptoms of Exposure: **Sensitive individuals may exhibit eye, nose, throat or dermal irritation with prolonged exposure to processing fumes or vapors. Eye contact may cause irritation, redness, tearing and blurred vision. Prolong breathing of fumes may cause damage to the central nervous system and cause unconsciousness.**
Chronic Effects: **May cause kidney, liver, spleen and central nervous system damage. May cause brain cell and neuromuscular damage according to animal studies.**	
Effects of Overexposure: **Pre-existing lung, skin, eye, pulmonary or nervous system conditions may be aggravated by exposure to this product.**	
Acute: **Inhalation may cause respiratory system irritation and central nervous system depression characterized by headache, dizziness, muscular weakness and fatigue. May cause unconsciousness if exposure is excessive.**	Carcinogenicity: **None**

Emergency & First Aid Procedures:

Eye Contact: **Flush with water for 15 minutes. Contact physician.**

Skin Contact:

Clean with rubbing alcohol followed immediately by washing with soap and water.

Inhalation:

Remove to fresh air and administer oxygen if breathing is labored. Give artificial respiration is breathing is stopped. Seek immediate medical attention if oxygen or artificial respiration is administered.

Ingestion:

Do not induce vomiting. Consult and inform a physician of the incident and the type and nature of the material.

Primary Route of Entry:

Inhalation, skin.

SECTION 6 – REACTIVITY DATA

Stability: **Stable at ambient temperatures and pressures.**	Incompatibility: **Strong oxidizers, acids and bases.**
Hazardous Decomposition Products: **Toxic gases or vapors, such as carbon monoxide, carbon dioxide and other decomposition products may be released during a fire.**	Hazardous Polymerization: **Will not occur** Conditions to Avoid: **Open flames, sparks, static electricity, and welding arcs.**

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Small spill:
Remove ignition sources. Absorb on inert material. Use non-sparking tools, scoop or shovel material into secure containers proper disposal. Use personal protective equipment as outlined below.

Large Spill:
Same as small spill.

Waste Disposal Method:
As a hazardous waste in accordance with EPA/RCRA regulations 40 CFR 261.21 (a) (1). Ignitability: D001.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **Approved OSHA organic vapor mask.**	Eye Protection: **Safety glasses recommended.**
Protective Gloves: **Impervious gloves are recommended to prevent skin contact. Neoprene, Nitrile rubber, or Polyvinyl gloves.**	Other Protective Equipment: **None required under normal installation conditions.**

Ventilation:
Store and use in well ventilated areas. **Anticipated use for outdoors only. Local exhaust ventilation is recommended to minimize any vapor buildup or exposure.**

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility. Use away from all sources of direct heat and ignition. Keep containers closed when not in use.

Other Precautions:
Store material in original shipping packaging. **Ground all transfer containers and equipment to prevent static electricity. Vapors may settle in low areas. Provide adequate ventilation.**

Work/Hygienic Practices:
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.

SECTION 10 - TRANSPORTATION

Regulatory Agency:	Identification Number:
U.S.A., DOT, IMO	**UN1133**
Proper Shipping Name:	Labels Required:
Adhesives	**Flammable Liquid**
Hazard Classification:	Packing Group:
3	**11**

Other Requirements:
49 CFR 172.101 Adhesives, UN1133, IMDG Class 3.2, Pg. 3174 Flash Point -10°C.

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:	Date of Previous MSDS:	Telephone Number for Additional Information:
None	**August 2000**	**(574) 293-9096**

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

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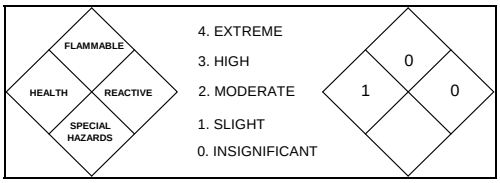
MATERIAL SAFETY DATA SHEET

ROOFING PRODUCTS INTERNATIONAL, INC.

MSDS 315 ROYAL EDGE TPO/EPDM BONDING ADHESIVE WATER BASED



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **Royal Edge TPO/EPDM Bonding Adhesive -Water Based (contact)**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Formula: **Mixture of listed substances with non-hazardous additions.**	Manufacturer's Name: **BAW1G, BAW5G**
Manufacturer's Name: **Roofing Products International, Inc**. Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**	NFPA Acute Hazard Rating: **Health 1, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 1, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names) OSHA (1910. 1200) Case No. OSHA STEL OSHA PEL ACGIH TLV

No hazardous/reportable components.

This product is not subject to identification regulations according to directives on hazardous materials.

Additional Information:

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory Requirements.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White liquid, characteristic odor**	Physical State: **Liquid**	Solubility in Water: **Dispersible**
Boiling Point: **212°F (100°C)**	Auto-Igniting: **Product is not self-igniting**	Melting Point: **Undetermined**
Flash Point: **NA**	Solvent Content: Organic Solvents: **0.0%**	Solids Content : **55.0%**
Specific Gravity: **1.01**	Evaporation Rate: **NA**	Reactivity in Water: **NA**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **NA**	Flammable Limits (in air): **NA**
Extinguishing Media: **Water, CO^2, alcohol resistant foam.**	Fire Fighting Procedures: **CO^2, extinguishing powder or water spray. Use water spray or alcohol resistant foam for larger fires.**
Hazardous Decomposition Products: **No hazardous decomposition products known.**	Special Fire & Explosion Hazards: **This product is not flammable.**
Dangerous Reactions: **Strong oxidizing agents**	Thermal Decomposition/ Conditions To Be Avoided: **No decomposition if used according to specifications.**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **Not established**	Signs and Symptoms of Exposure: **Prolonged contact with skin can cause redness and irritation. When used and handled according to specifications, this product does not have any harmful effects according to our experience and information provided to us.**
Effects of Overexposure: Medical Conditions Aggravated by Exposure: **Skin irritation/eye irritation**.	
Acute: **May cause gastrointestinal irritation if swallowed.**	
Chronic: **None currently known.**	Chemical Listed as a Carcinogen (or Potential Carcinogen): **None listed**

Emergency & First Aid Procedures:

Eye Contact:

Flush with large amounts of water, lifting upper and lower lids occasionally. Continue for at least 15 minutes and call physician.

Skin Contact:

Remove contaminated clothing and wash affected area with soap and water. Obtain medical attention if irritation persists.

Inhalation:

Remove to fresh air. Call physician.

Ingestion:

If swallowed, contact a Physician.

Primary Route of Entry:

Ingestion or eye contact.

SECTION 6 – REACTIVITY DATA

Stability: **Stable at ambient temperatures and pressures**	Incompatibility: **None known**
Hazardous Decomposition Products: **No hazardous decomposition products known.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **None known**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Absorb using inert liquid binding material, (sand, diatomite, acid binders, universal binders, sawdust). Transfer into secure containers and dispose of contaminated material as waste according to federal, state, and local regulations. Use personal protective equipment as outlined below. Contain and prevent material from accessing water drainage systems. NOTE: This product is not known to be hazardous to water.

Large Spill:

Same as small spill.

Waste Disposal Method:

Dispose in accordance with federal, state, and local regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **If applied by spraying, use NIOSH-Certified respiratory protection for organic vapor if necessary. Refer to OSHA 29 CFR 1910.134 "Respiratory Protection".**	Eye Protection: **Wear safety glasses with side shields, Wear Face shield as necessary when spraying.**

Protective Gloves:	Other Protective Equipment:
Impervious gloves are recommended to prevent skin contact.	**Under normal application conditions, protective glasses, gloves, and clothing are adequate.**

Ventilation:
Natural ventilation should be adequate under normal conditions.

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility. Keep containers closed when not in use. Protect from freezing.

Other Precautions:
Provide adequate ventilation and avoid prolonged or repeated contact with the skin. Wash with soap and water after contact. Do not take internally. Close containers after each use. Keep away from children.

Work/Hygienic Practices:
Maintain good personal hygiene practices. Wash contaminated clothing before reuse. Do not eat or drink in work areas. Wash exposed skin before eating, drinking, or applying cosmetics.

SECTION 10 - TRANSPORTATION

DOT Regulations:	Identification Number:
Not Regulated	**Not Applicable**
Proper Shipping Name: **Water Based Adhesive**	Labels Required: **Not Applicable**
Hazard Classification: **This product is not subject to identification regulations according to directives on hazardous material.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
August 2000

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

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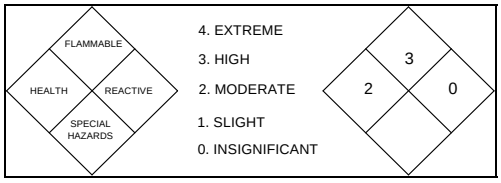
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 316 RPI ROYAL EDGE TPO BONDING ADHESIVE SOLVENT BASED



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI Royal Edge TPO Bonding Adhesive Solvent Based**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Solvent Based Adhesive** / Product Code: **TBAS1, TBAS5**	Manufacturer's Name/Address: **Roofing Products International, Inc. 57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **Not Established**	NFPA Acute Hazard Rating: **Health 2, Flammability 3, Reactivity 0**
Chemical Formula: **Polychloroprene**	HMIS Acute Hazard Rating: **Health 1, Flammability 3, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names) Common Names Hazardous components 1% or greater Carcinogens 0.1% or greater	%	Case No.	OSHA PEL-TWA	ACGIH TLV-TWA
Naphtha (petroleum), solvent-refined light textile Spirits	**33%**	**64741-84-0**		
Toluene	**26%**	**108-88-3**	Short Term Value: C300ppm-500ppm Long Term Value: 200ppm	(188) NIC-75 mg/m³ (50) NIC-20 ppm
Acetone	**19%**	**67-64-1**	2400 mg/m³ 1000ppm	Short Term Value: 1782 mg/m³ 750 ppm Long Term Value: 1188 mg/m³ 500 ppm
Additional Information: **Textile Spirits (Primarily N-Hexane)**		**110-54-3**		

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **Yellow liquid, with a solvent odor.**	Physical State: **Liquid**	Solubility in Water: **Insoluble, not miscible**
Boiling Point: **98°C (208°F)**	Specific Gravity (H^2O=1) **082.5**	Melting Point: **NA**
Vapor Pressure: @ 20° C (68° F): **233 O hPa (175 mm Hg)**	Vapor Density (Air=1) **Heavier than air**	VOC: **4.05 lbs/gal**
Volatiles: (% Wt or % Vol) **25-85%**	Evaporation Rate: (Butyl Acetate=1) **Faster than n-Butyl Acetate**	Solids Content: **22%**
Weight per Gallon: **6.87 lbs**	Solvent Content: Organic Solvents **78%**	Ignition Temperature: **240° C (464° F)**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point:
- 18° C, - 0° F

Flammable Limits (in air):
LEL: 1.2 Vol%; UEL: 13 Vol%

Extinguishing Media:
Water fog followed by standard fire extinguishers-course stream. Dry chemical, carbon dioxide, and foam can also be used along with vaporizing liquid type agents.
Water should be used to keep fire-exposed containers cool and to protect firefighters attempting to stop a leak/spill or extinguish a fire.

Fire Fighting Procedures:
Use water spray to cool adjacent surfaces and fire exposed containers. Protect against inhalation of combustion products.
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:
Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, Sulfur Dioxide, and Hydrogen Chloride, (thermal degradation products).

Special Fire & Explosion Hazards:
This product is non-explosive, however formation of explosive air/vapor mixtures are possible.
Keep work areas free from open flames, sparks, hot metal surfaces and other sources of ignition. Ground objects prone to static electricity.

Method Used:
TCC

Auto-Ignition Temperature:
This product is not self-igniting.

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit:
Not Established

Signs and Symptoms of Exposure:
Dizziness, nausea or vomiting. Sensitive individuals may exhibit eye, nose, throat or dermal irritation with prolonged exposure to processing fumes or vapors.

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.

Chemical Listed as a Carcinogen (or Potential Carcinogen):
National Toxicology Program: **NO**
L.A.R.C. Monographs: **NO**
OSHA: **NO**

Acute Toxicity: 108-88-3 Toluene

Oral	LD50	5000 mg/kg (rat
Dermal	LD50	1214 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

Chronic:
Excess exposure can cause CNS depression, headache, nausea, narcosis, and liver and kidney damage.

Emergency & First Aid Procedures:
Eye Contact: **Flush with water and call physician**
Skin Contact: **Clean with rubbing alcohol, followed by soap and water.**

Inhalation: **Remove to fresh air. Administer oxygen or artificial Respiration, if necessary. Call a physician.**

Primary Irritant:
to eyes: **Irritating effect**
to skin: **Irritant to skin and mucous membranes**

Ingestion: **Consult a physician. DO NOT INDUCE VOMITING**
Primary Route of Entry: **Inhalation.**

SECTION 6 – REACTIVITY DATA

Stability:
Stable at ambient temperatures and pressures

Incompatibility:
Strong oxidizers, acids, bases.

Hazardous Decomposition Products:
Toxic gases or vapors, such as oxides of carbon and nitrogen along with trace of HCL may be released during a fire.

Hazardous Polymerization:
NA

Conditions to Avoid:
Open flames and sparks. Closed areas that restrict adequate ventilation. Toxic to fish. Do not contaminate ground water, water course, or sewage systems. Toxic to aquatic life.

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 secure containers for proper disposal. Use personal 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:	Eye Protection:
Use NIOSH-Certified respiratory protection for organic vapor if necessary.	**Impervious glasses recommended**
Protective Gloves: **Impervious gloves are recommended to prevent skin contact.**	Other Protective Equipment: **Under normal application conditions, protective glasses, gloves, and clothing are adequate.**

Ventilation:
Provide adequate ventilation to maintain airborne concentrations below OSHA PELs.

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility. Store and use away from all sources of direct heat and ignition. Keep containers closed when not in use.

Other Precautions:
Provide adequate ventilation and avoid prolonged or repeated contact with the skin. Wash with soap and water after contact.

Work/Hygienic Practices:
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.

SECTION 10 - TRANSPORTATION

Regulatory Agency:	Identification Number:	Labels Required:	Proper Shipping Name:
U.S.A., DOT, IMO	**UN 1133**	**Flammable Liquid**	**Adhesives**
Hazard Classification: **3**	Packing Group: **III**	Other Requirements: **49 CFR 172.101 Adhesives, UN1133, IMDG Class 3.2, Pg. 3174, Flash Point -18° C**	

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:	Date of Previous MSDS:	Telephone Number for Additional Information:
None	**March 21, 2007**	**(574) 293-9096**

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

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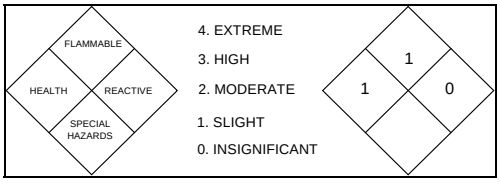
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 317 RPI RE-FLEX UNCURED FLASHING WITH TAPE



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI Re-Flex Uncured Flashing With Tape**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Uncured EPDM** / Product Code: **TUT1225**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 1, Flammability 1, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 1, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	% wt or % vol	Case No.	% wt or % vol	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Hazardous Components 1% or greater; Carcinogens 0.1% or greater:						
Solids (by weight)						
Non-Hazardous Ingredients	**100**					
Total	**100**					

There are no recognized hazards associated with normal use of this product.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **Black solid with tacky white solid tape on one side, no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **N/A**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **>200°F**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.** .
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **N/A**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **Irritation, redness**	Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.
Chronic: **N/A**	

Emergency & First Aid Procedures:

Eye Contact:

Can cause irritation, redness, tearing, blurred vision.

Skin Contact:

Not normally hazardous

Inhalation:

Not normally hazardous unless at elevated temperatures. Remove to fresh air.

Ingestion:

Induce vomiting. Consult a Physician

Primary Route of Entry:

None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Scoop or shovel material into sealed containers.

Large Spill:

Same as small spill.

Waste Disposal Method:

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection:	Eye Protection:
NA	**Safety glasses with side shields recommended.**
Protective Gloves:	Other Protective Equipment:
Not Required	**None required under normal installation conditions.**

Ventilation:

No respirator needed.

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency:	Identification Number:
Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory	**Not Applicable**
Proper Shipping Name:	Labels Required:
Not Applicable	**Not Applicable**
Hazard Classification:	Other Requirements:
EPA SARA Title III hazard class (40CFR370): None **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	**Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

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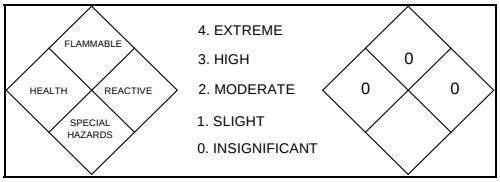
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 318 RPI RE-FLEX .045 TPO MEMBRANE



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI Re-Flex .045 TPO (products trade name on label)**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Thermo Plastic Olifin** Product Code: **T45W(white), T45G(grey), T45T(tan)**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	% wt or % vol	Case No.	% wt or % vol	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Hazardous Components 1% or greater; Carcinogens 0.1% or greater:						
Solids (by weight)						
Non-Hazardous Ingredients	**100**					
Total	**100**					

There are no recognized hazards associated with normal use of this product.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White solid with no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **350 °F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **N/A**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.** .
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **600-770°F**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.	
Acute: **N/A**	Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.
Chronic: **N/A**	

Emergency & First Aid Procedures:

Eye Contact:

Can cause irritation, redness, tearing, blurred vision.

Skin Contact:

Not normally hazardous

Inhalation:

Not normally hazardous unless at elevated temperatures. Remove to fresh air.

Ingestion:

Induce vomiting. Consult a Physician

Primary Route of Entry:

None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Small spill:

Scoop or shovel material into sealed containers.

Large Spill:

Same as small spill.

Waste Disposal Method:

If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection:	Eye Protection:
NA	**Safety glasses with side shields recommended.**
Protective Gloves:	Other Protective Equipment:
Not Required	**None required under normal installation conditions.**

Ventilation:

No respirator needed.

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency:	Identification Number:
Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory	**Not Applicable**
Proper Shipping Name:	Labels Required:
Not Applicable	**Not Applicable**
Hazard Classification:	Other Requirements:
EPA SARA Title III hazard class (40CFR370): None **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	**Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

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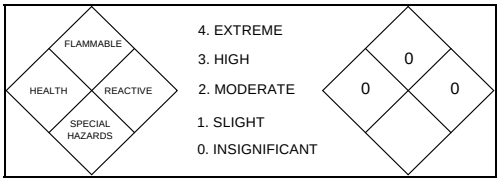
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 319 RPI RE-FLEX .060 TPO MEMBRANE



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **RPI Re-Flex .060 TPO (products trade name on label)**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Thermo Plastic Olifin** Product Code: **T60W(white), T60G(grey), T60T(tan)**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0** HMIS Acute Hazard Rating: **Health 0, Flammability 0, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names) **Hazardous Components 1% or greater; Carcinogens 0.1% or greater:**	% wt or % vol	Case No.	% wt or % vol	OSHA STEL	OSHA PEL ACGIH	ACGIH TLV
Solids (by weight)						
Non-Hazardous Ingredients	**100**					
Total	**100**					

There are no recognized hazards associated with normal use of this product.

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **White solid with no odor.**	Physical State: **Solid**	Solubility in Water: **Insoluble**
Boiling Point: **N/A**	Specific Gravity (HO=1) **0.90-1.20**	Melting Point: **350 °F**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **N/A**	Freezing Point: **N/A**
Percent Volatiles: **N/A**	Evaporation Rate: **N/A**	Reactivity in Water: **None**
pH (Full Strength) **N/A**	pH (Recommended Dilution): **N/A**	Refraction Index: **N/A**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **N/A**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **600-770°F**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **N/A**	Flammable Limits (in air): **LEL: N/A UEL: N/A**
Hazardous Decomposition Products: **In the event of combustion, carbon dioxide, smoke, methane, propane, and other decomposition products may be released.**	Fire Fighting Procedures: **Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products.**
Extinguishing Media: **Dry chemical and CO^2 can also be used**.	Special Fire & Explosion Hazards: **None**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **600-770°F**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **N/A**	Acute: **N/A**	Chronic: **N/A**	Signs and Symptoms of Exposure: **Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.**
Effects of Overexposure: **Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions**.			Carcinogenicity: **IARC, NTP, and OSHA do not list this product as a carcinogen**.

Emergency & First Aid Procedures:
Eye Contact:
Can cause irritation, redness, tearing, blurred vision.
Skin Contact:
Not normally hazardous
Inhalation:
Not normally hazardous unless at elevated temperatures.
Remove to fresh air.
Ingestion:
Induce vomiting. Consult a Physician
Primary Route of Entry:
None

SECTION 6 – REACTIVITY DATA

Stability: **Stable**	Incompatibility: **None**
Hazardous Decomposition Products: **Carbon monoxide, methane, propane, aldehydes and other organic matter may be released during a fire.**	Hazardous Polymerization: **Will not occur**
Conditions to Avoid: **N/A**	

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Small spill:
Scoop or shovel material into sealed containers.

Large Spill:
Same as small spill.

Waste Disposal Method:
If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA 40CFR261. Dispose of in accordance with local, state, and federal regulations.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **NA**		Eye Protection: **Safety glasses with side shields recommended.**
Protective Gloves: **Not Required**	Ventilation: **No respirator needed.**	Other Protective Equipment: **None required under normal installation conditions.**

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility.

Other Precautions:
Store material in original shipping packaging.

Work/Hygenic Practices:
Maintain good personal hygiene practices. Product is easily removed with waterless hand cleaner followed by washing with soap and water.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **Not Regulated. All components are included in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory**	Identification Number: **Not Applicable**
Proper Shipping Name: **Not Applicable**	Labels Required: **Not Applicable**
Hazard Classification: **EPA SARA Title III hazard class (40CFR370): None** **EPA SARA Title III Section 313 (40CFR372): None** **EPA SARA Title III (40CFR355): There are no components present in this product at a level which would require reporting.**	Other Requirements: **Not Applicable**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
None

Date of Previous MSDS:
October 10, 2006

Changes Since Previous MSDS:
Comment change in sections: 1 thru 9
Add sections: 10,11

Telephone Number for Additional Information:
(574) 293-9096

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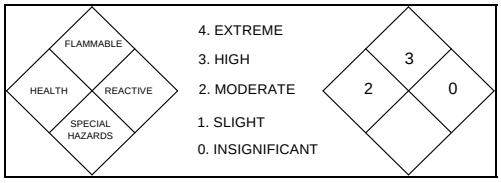
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 320 ROYAL EDGE LOW VOC BONDING ADHESIVE SOLVENT BASED



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **Royal Edge Low VOC Bonding Adhesive Solvent Based**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Solvent Based Adhesive** / Product Code: **BAS5GLV (5-gallon)**	Manufacturer's Name/Address: **Roofing Products International, Inc. 57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **Not Established**	NFPA Acute Hazard Rating: **Health 2, Flammability 3, Reactivity 0**
Chemical Formula: **Polychloroprene Based Adhesive**	HMIS Acute Hazard Rating: **Health 2, Flammability 3, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names) Commo Names Hazardous components 1% or greater	COMMON NAME	% (by wt)	CASE NO.	OSHA PEL-TWA	ACGIH TLV-TWA
Tert-butyl Acetate	**Acetic Acid**	**30-60**	**540-88-5**	**200 ppm**	**200 ppm**
Toluol	**Toluene**	**1-6**	**108-88-3**	**200 ppm** OSHA CEIL: **300 ppm**	**20 ppm**
Acetone	**Methyl Ketone**	**10-40**	**67-64-1**	**1000 ppm**	**500 ppm** ACGIH STEL: **750 ppm**
Acetic Acid, Methyl Ester	**Methyl Acetate**	**1-15**	**79-20-9**	**200 ppm**	**200 ppm** ACGIH STEL: **750 ppm**
Nonhazardous as per CFR 1910.1200	**None**	**< 58**	**TSCA Registered**	**Non Established**	

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **Yellow liquid, with a strong solvent odor.**	Physical State: **Liquid**	Solubility in Water: **Insoluble, not miscible**
Boiling Point: **131°F**	Specific Gravity (H^2O=1) **0899**	Melting Point: **NA**
Vapor Pressure: @ 20° C (68° F): **175 mm Hg**	Vapor Density (Air=1) **Unknown**	VOC Content: **218 g/l**
Volatiles: (% Wt or % Vol) **77%**	Evaporation Rate: (Butyl Acetate=1) **Unknown**	Solids Content: **22%**
Weight per Gallon: **7.45 +- 0.15 lb/gal**	pH undiluted product: **Unknown**	Ignition Temperature: **869° F**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point:
- 19° C, 2° F

Flammable Limits (in air):
LEL: 2.6 Vol %; UEL: 13 Vol %

Extinguishing Media:
Water fog followed by standard fire extinguishers-course stream. Dry chemical, carbon dioxide, and foam can also be used along with vaporizing liquid type agents.
Water should be used to keep fire-exposed containers cool and to protect firefighters attempting to stop a leak/spill or extinguish a fire.

Fire Fighting Procedures:
Use water spray to cool adjacent surfaces and fire exposed containers. Protect against inhalation of combustion products.
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:
Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, Sulfur Dioxide, and Hydrogen Chloride, (thermal degradation products).

Special Fire & Explosion Hazards:
This product is non-explosive, however formation of explosive air/vapor mixtures are possible.
Keep work areas free from open flames, sparks, hot metal surfaces and other sources of ignition. Ground objects prone to static electricity.

Method Used:
Not Known

Auto-Ignition Temperature:
This product is not self-igniting.

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit:
Not Established

Signs and Symptoms of Exposure:
Dizziness, nausea or vomiting. Sensitive individuals may exhibit eye, nose, throat or dermal irritation with prolonged exposure to processing fumes or vapors.

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.

Chemical Listed as a Carcinogen (or Potential Carcinogen):
Toluene is listed by IARC as a class 3, unclassifiable as to carinogenicity in humans.

Acute Toxicity: 108-88-3 Toluene

Oral	LD50	5000 mg/kg (rat
Dermal	LD50	1214 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

Chronic:
Excess exposure can cause CNS depression, headache, nausea, narcosis, and liver and kidney damage.

Emergency & First Aid Procedures:
Eye Contact: **Flush with water and call physician**
Skin Contact: **Clean with rubbing alcohol, followed by soap and water.**

Inhalation: **Remove to fresh air. Administer oxygen or artificial Respiration, if necessary. Call a physician.**

Primary Irritant:
to eyes: **Irritating effect**
to skin: **Irritant to skin and mucous membranes**

Ingestion: **Consult a physician. DO NOT INDUCE VOMITING**
Primary Route of Entry: **Inhalation.**

SECTION 6 – REACTIVITY DATA

Stability:
Stable at ambient temperatures and pressures

Incompatibility:
Strong oxidizers, acids, bases.

Hazardous Decomposition Products:
Toxic gases or vapors, such as oxides of carbon and nitrogen along with trace of HCL may be released during a fire.

Hazardous Polymerization:
NA

Conditions to Avoid:
Open flames and sparks. Closed areas that restrict adequate ventilation. Toxic to fish. Do not contaminate ground water, water course, or sewage systems. Toxic to aquatic life.

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 secure containers for proper disposal. Use personal 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:	Eye Protection:
Use NIOSH-Certified respiratory protection for organic vapor if necessary.	**Impervious glasses recommended**
Protective Gloves: **Impervious gloves are recommended to prevent skin contact.**	Other Protective Equipment: **Under normal application conditions, protective glasses, gloves, and clothing are adequate.**

Ventilation:
Provide adequate ventilation to maintain airborne concentrations below OSHA PELs.

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility. Store and use away from all sources of direct heat and ignition. Keep containers closed when not in use.

Other Precautions:
Provide adequate ventilation and avoid prolonged or repeated contact with the skin. Wash with soap and water after contact.

Work/Hygienic Practices:
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.

SECTION 10 - TRANSPORTATION

Regulatory Agency:	Identification Number:	Labels Required:	Proper Shipping Name:
U.S.A., DOT, IMO	**UN 1133**	**Flammable Liquid**	**Adhesives**
Hazard Classification: **3**	Packing Group: **II**	Other Requirements: **None Known**	

SECTION 11 – MISCELLANEOUS INFORMATION

Date of Previous MSDS:	Telephone Number for Additional Information:	Changes Since Previous MSDS:
None	**(574) 293-9096**	**NONE: New product**

Additional Information:
VOC Rule 1168 for OTC: 215 gm/l
VOC: 52 gm/l

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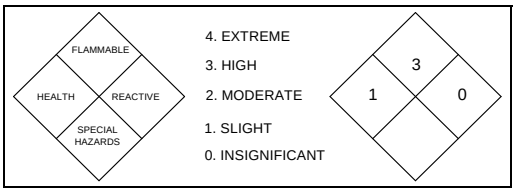
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 321 ROYAL EDGE LOW VOC PRIMER/ACTIVATOR



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **Royal Edge Low VOC Primer/Activator**		24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **Sythetic Rubber Polymers**	Product Code: **PA1GLV (1-gallon)**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**		Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **Not Established**		NFPA Acute Hazard Rating: **Health 1, Flammability 3, Reactivity 0** HMIS Acute Hazard Rating: **Health 1, Flammability 3, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	Case No.	% by Weight
Heptane	**142-82-5**	**5-20**
PEL 2000 mg/m^3, 500 ppm **REL Short-term value: C 1800* mg/m^3, C 440* ppm** **Long-term value: 350 mg/m^3, 85 ppm** ***15-min** **TVL Short-term value: 2050 mg/m^3, 500 ppm** **Long-term value: 1640 mg/m^3, 400 ppm**		
4-chloro-alpha, alpha, alpha-trifluorotoluene (oxsol 100)	**98-56-6**	**65-85**

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **Thin clear liquid, characteristic odor**	Physical State: **Liquid**	Solubility in Water: **Insoluble**
Boiling Point: **98° C (208°F)**	Specific Gravity (HO=1) **1.13 (Water=1)**	Melting Point: **NA**
Vapor Pressure: **@ 20°C, 68°F** **48.0 hPa (36 mm Hg)**	Vapor Density (Air=1) **3.6**	Freezing Point: **Not Established**
Percent Volatiles: **85 %**	Evaporation Rate: **(ethyl ether = 1): 3.5**	Reactivity in Water: **Not Established**
Organic Solid Content: **90.5%**	Percent Solids (by weight): **9.5%**	Ignition Temperature: **215° C (419° F)**
Additional Information: **VOC: 1.79 lbs/gal** **215 g/l SCAQMD RULE 1168 METHOD** **WEIGHT PER GALLON: 9.4 lbs**		

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **-4°C (25 F°)**	Flammable Limits (in air): **LEL: 1.1%; UEL: 7.0%**
Extinguishing Media: **Dry chemical (extinguishing powder), CO2, or sand.** **Do not use water as an extinguishing agent.** **Do not flush with water or aqueous cleansing agents.** **Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, or sawdust).**	Fire Fighting Procedures: **Use water spray to cool adjacent surfaces and fire exposed containers. Protect against inhalation of combustion products. Treat as "Class B" fire.** **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: T**hermal Degradation products:** **Oxides of carbon, nitrogen and hydrocarbons, hydrogen bromide. Irritating fumes.**	Special Fire & Explosion Hazards: **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.**
Method Used: **Estimate based on the flash point of the most volatile component.**	Auto-Ignition Temperature: **Product in not self-1igniting**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **Not Established**	Signs and Symptoms of Exposure: **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 repiratory system irritation and central nervous system depression (Narcosis) fatigue.**
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**	Chemical Listed as a Carcinogen (or Potential Carcinogen): National Toxicology Program: **NO** L.A.R.C. Monographs: **NO** OSHA: **NO**
Chronic: **Excess exposure can cause CNS depression, headache, nausea, narcosis, and liver and kidney damage**.	

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 rubbing alcohol, followed immediately by washing 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, skin absorption.

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 rubbing alcohol, followed immediately by washing 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, skin absorption.

SECTION 6 – REACTIVITY DATA

Stability: **Stable at ambient temperatures and pressures**	Incompatibility: **Strong oxidizers, acids, bases.**
Hazardous Decomposition Products: **Partial combustion may release toxic gases or vapors, such as oxides of carbon and nitrogen along with traces of HCL.**	Hazardous Polymerization: **Will not occur.**

Conditions to Avoid:
Open flames, sparks, and closed areas that restrict adequate ventilation.

SECTION 7 - SPILL OR LEAK PROCEDURES

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

Large Spill:
Same as small spill.

Waste Disposal Method:
Dispose of as a hazardous waste in accordance with EPA/RCRA regulations 40CFR261 21: Ignitability
Do not dispose with housefold garbage. Dispose according to local, state, and federal regulations.

Water Hazard Class:
Class 2, self assessment. Do not allow product to contaminate ground water, water course, or sewage systems.
Danger to drinking water even in small amounts. Poisonous to fish, plankton, and other aquatic organisms.
Dispose of as a hazardous waste in accordance with EPA/RCRA regulations 40CFR261 21: Ignitability

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **In areas with inadequate ventilation, the use of a NIOSH-Certified respiratory protection for organic vapor is recommended.**	Eye Protection: **Impervious glasses recommended**
Protective Gloves: **Polyvinyl alcohol, nitrile rubber, or neoprene gloves are recommended to prevent skin contact.**	Other Protective Equipment: **Under normal application conditions, protective glasses, gloves, and clothing are adequate.**

Ventilation:
Provide adequate ventilation to maintain airborne concentrations below OSHA PELs.

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
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.

Other Precautions:
Provide adequate ventilation and avoid prolonged or repeated contact with the skin. Wash with soap and water after contact.

Work/Hygienic Practices:
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.

SECTION 10 - TRANSPORTATION

Regulatory Agency: **U.S.A., DOT**	DOT Identification Number: **UN1133**
DOT Proper Shipping Name: **Adhesive**	DOT Labels Required: **Adhesives, containing flammable Liquid**
DOT Hazard Classification: **3**	DOT Packing Group: **II**

EPA SARA Title III (40CFR355): There are no components present in the product at a level which would require reporting.
This product contains a chemical that is listed on the following states hazardous material list.
Pennsylvania Hazardous Substance List: YES
New Jersey Workplace Hazardous Substance List: YES
Massachusetts Substance List: YES
Canada (WHMIS) Ingredient Disclosure List: YES
California Prop0osition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):
This product contains listed substances, which the State of California has found to cause cancer, birth defects, or other reproductive harm, which would require a warning under the statute. Toluene CAS 108-88-3

EPA SARA Title III Section 313 (40CFR372): Aromatic hydrocarbon solvent C.A.S. # 108-88-3 20-40%.

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
NA

Date of Previous MSDS:
None

Changes Since Previous MSDS:
None, new product

Telephone Number for Additional Information:
(574) 293-9096

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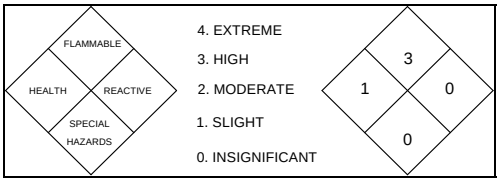
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 322 ROYAL EDGE LVOC MEMBRANE CLEANER



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **Royal Edge LVOC Membrane Cleaner**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **N/A** Product Code: **MCLV**	Manufacturer's Name: **Roofing Products International, Inc**.
Chemical Family: **Mixture**	Manufacturer's Address: **57460 Dewitt St., Elkhart, IN 46517-1078**
Chemical Formula: **N/A**	NFPA Acute Hazard Rating: **Health 1, Flammability 3, Reactivity 0** HMIS Acute Hazard Rating: **Health 1, Flammability 3, Reactivity 0**

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	% wt or %vol	Case No.	PEL / TLV / REL
Tert-Butyl Acetate	**100%**	**540-88-5**	PEL **950 mg/m3, 200ppm** TLV **950 mg/m3, 200ppm** REL **950 mg/m3, 200ppm**

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **Clear colorless liquid with solvent odor.**	Physical State: **Liquid**	Solubility in Water: **insoluble**
Boiling Point: **208°F (98°C)**	Specific Gravity (HO=1) **.86**	Melting Point: **N/A**
Danger of Explosion: **Air/vapor mixtures may be explosive.**	Organic Solvents: **100%**	Weight Per Gallon: **7.17 lbs.**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **59°F (15°C)**	Flammable Limits (in air): **LEL: 1.0% UEL: 7%**
Extinguishing Media: **Fight large fires with alcohol resistant foam or water spray. Co2, extinguishing powder, or water spray can be used. Fight**	Fire Fighting Procedures: **Limit fire fighting to those trained to do so. 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: **In the event of combustion, carbon dioxide, smoke, carbon compound and other decomposition products may be released.**	Special Fire & Explosion Hazards: **Material is volatile and gives off vapors which may travel along the ground or be moved by ventilation and ignited by static sparks, pilot lights, electric motors, welders, heaters, or other sources of ignition at far from the application point. Welding or cutting on or near empty containers may result in vapor ignition and explosions.**
Method Used: **Estimate based on flash point of most volatile component.**	Auto-Ignition Temperature: **Undetermined**

SECTION- 5 HEALTH HAZARD DATA

Primary Routes of Entry:
Inhalation _X_ Skin Absorption_X_ Ingestion_X_ None___

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

Signs and Symptoms of Exposure:
Under normal conditions of use, this product will not release or otherwise result in exposure to hazardous chemicals.

Acute:
Inhalation: Breathing large amounts of vapor or mist may be harmful. Symptoms usually occur at air concentration higher than the recommended exposure limits.
Ingestion: Swallowing this material may be harmful. Material may get into the lungs during swallowing or vomiting causing lung inflammation and injury.
Eyes: May cause eye irritation. Symptoms include stinging, tearing, and redness.
Skin: Can cause skin irritation. Prolonged or repeated contact can dry the skin. Symptoms include drying and cracking, burns, and other skin damage. Although unlikely during safe handling and use, material can be absorbed thru the skin.

Chronic:
Overexposure to this material (or its components), has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, and mild reversible kidney effects with kidney damage and cardiac sensitization. This material (or a component) has been shown to cause defects in laboratory animal studies. The relevance to humans is uncertain. This material has not caused cancer in laboratory animals.
Ethylbenzene has been shown to cause cancer in laboratory animals but the relevance of this finding to humans is unclear. IARC (International Agency for Research on Cancer) has classified ethylbenzene as a possible human carcinogen.
Benzene: Know to the state of California to cause cancer.
Benzene and Toluene: Known to the state of California to cause reproductive harm.

Carcinogen Listed In:
NTP____ IARC Monograph____ OSHA____ Not Listed _X_

Emergency & First Aid Procedures:
Eye Contact: Move individual away from exposure and into fresh air. Flush eyes gently with clean water for at least 15 minutes while holding eyelids apart. If symptoms persist, seek medical attention.
Skin Contact: Remove contaminated clothing. Flush exposed area with large amounts of clean water. If skin is damaged, seek medical attention. If symptoms persist, seek medical attention. Launder or properly dispose of contaminated clothing.
Inhalation: If symptoms develop, immediately move the individual away from exposure into fresh air. Seek immediate medical attention. If breathing is difficult, administer oxygen. If the person is not breathing, begin artificial respiration.
Ingestion: Seek medical attention. If individual is drowsy or unconscious, place the individual on the left side with the head down. Do not give anything by mouth. Contact a physician, medical facility, or poison control center for advice about wether to induce vomiting. Do not leave the individual un-attended.

Note to Physicians:
Inhalation of high concentrations of this material, may be associated with cardiac arrhythmias. Sympathomimetic drugs my initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity. (See section on Ingestion) when deciding wether to induce vomiting. Pre-existing disorders of the following organs, (or organ systems) may be aggravated by exposure to this material: skin, lung (asthma-like conditions), liver, kidney, and auditory system. Individuals with pre-existing heart disorders may be more susceptible to arrhythmias, (irregular heartbeats) if exposed to high concentrations of this material.

SECTION 6 – REACTIVITY DATA

Stability:
Stable

Incompatibility:
Strong oxidizing agents.

Hazardous Decomposition Products:
Carbon monoxide, carbon monoxide, and various hydrocoarbons.

Hazardous Polymerization:
Will not occur

Conditions to Avoid:
Fires, sparks, static electricity, and confined areas without ventilation.

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Small spill: **Eliminate all sources of ignition such as flares, electrical sparks, flames, and pilot lights. Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to proper collection containers.**

Large Spill:
Stop spill at source. Eliminate all sources of flames, electrical sparks, and pilot lights. Persons not wearing protective equipment should be excluded from the spill and clean-up area until clean-up is complete. Prevent materials from entering drains, sewers, streams or other bodies of water. Prevent the spreading of spilled material. Using proper equipment, transfer spilled material to clean recovery containers. Absorb unrecoverable product and transfer the contaminated absorbent soil, debris, and other materials to containers for disposal. Promptly notify the proper authorities that a spill has occurred.

Waste Disposal Method:
Dispose accordance with applicable local, state, and federal regulations. Do not dispose in household garbage.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection:	Eye Protection:
If vapors exceed TLV, use self contained organic mask MSHA/NIOSH approved.	**Safety glasses with side shields are recommended.**
Protective Gloves:	Other Protective Equipment:
Chemical resistant gloves.	**None required under normal installation conditions.**

Ventilation: **Local Exhaust __X___ Sufficient to keep vapors below TLV or PEL**
Mechanical (General) to maintain exposure below TLV ___X____

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling:
Store in cool, dry, well ventilated facility. Containers of this material may be hazardous when emptied. Emptied containers retain product residues (vapor, liquid, and/or solids). All hazard precautions given in the data sheet must be observed. All five gallon pails including larger containers such as tanker trucks, tank cars, must be properly grounded against static electricity. Hydrocarbon solvents are non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If the charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids.
Warning: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature or pressure, or sudden ingress of air into vacuum equipment may result in explosions or ignitions without the presence of obvious ignition sources.

Other Precautions:
Store material in cool dry areas in original shipping packaging.

SECTION 10 – TRANSPORTATION

Regulatory Agency:	Identification Number:
DOT	**UN 1123**
Proper Shipping Name:	Labels Required:
Not Applicable	**Flammable**
Hazard Classification:	Hazardous Substance:
3	**Butyl Acetates**

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:

None

Date of Previous MSDS:

None. New Product

Changes Since Previous MSDS:

None

Telephone Number for Additional Information:

(574) 293-9096

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