



* **Section 1. Identification**

Product identifier

TPO Unreinforced Flashing Membrane

- **Trade name:** RPI Re-Flex TPO Membranes, Re-Flex TPO Detailing Membrane, Re-Flex TPO Inside/Outside Corners, Re-Flex TPO Pipe Boots, Re-Flex TPO T-Patches, Re-Flex TPO Fluted Corner, Walkway Roll
- **Product Code:** TDM2450
- **Relevant identified uses of the substance or mixture:** Construction

Details of the supplier of the safety data sheet Manufacturer/Supplier

Roofing Products International, Inc.

57460 Dewitt St.

Elkhart, IN 46517-1078

Telephone: 1-574-293-9096

Information Department: Technical Services Department

Emergency telephone number

Chemtrec United States 1(800) 424-9300 International 703-527-3887

* **Section 2. Hazard(s) Identification**

EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

- **CLP:** Not Classified
- **DSD/DLP:** Not Classified

LABEL ELEMENTS

- **CLP:** Hazard Statements: No Label Elements Required
- **DSD/DLP:** Risk Phrases: No Label Elements Required

OTHER HAZARDS

- **CLP:** This product is exempt from CLP/REACH obligations as an article as specified in REACH (1907/2006) and related ECHA guidance.
- **DSD/DLP:** Under European Directive 1999/45/EC these products are considered exempt and considered manufactured article(s) under stated normal conditions of use.

UNITED STATES (US)

According to OSHA 29 CFR 1910.1200 HCS

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

- **OSHA HCS 2012:** Not Classified

LABEL ELEMENTS

- **OSHA HCS 2012:** Not Classified
- **Hazard Statements:** No label element(s) required

OTHER HAZARDS

- **OSHA HCS 2012:** Under United States Regulations (29 CFR 1910.1200-Hazard Communication Standard) this product is exempt as an article under stated normal conditions of use.

CANADA

- **According to WHMIS**

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

- **WHMIS:** Not Classified

Tradenames: Re-Flex TPO Membranes, Re-Flex TPO Detailing Membrane, Re-Flex TPO Pipe Boots, Re-Flex TPO Inside/Outside Corners, Re-Flex TPO T-Joint Patches, Re-Flex TPO Fluted Corner, Re-Flex TPO Walkway Roll

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- **CANADA**
According to WHMIS
- **CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**
WHMIS: Not Classified
- **LABEL ELEMENTS**
- **WHMIS:** *Not Classified*
- **WHMIS:** *No label element(s) required*
- **OTHER HAZARDS**
- **WHMIS:** *Under Canadian Regulations Workplace Hazardous Materials Information System (WHMIS) Hazardous Products Act (HPA,) Section 11 (1.), these product(s) are exempt as an article under stated normal conditions of use.*
- **OTHER INFORMATION**
*This material, as an article, does not legally require an SDS.
See Section 12 for Ecological Information*

* **Section 3. Composition/Information on Ingredients**

Substances

This material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

Mixtures

Composition					
Chemical Name	Identifiers	LD50/LC50	%	Classifications according to Regulation/Directive	Comments
Non-Hazardous Components	NA	NA	100%	EU DSD/DPD: None EU CLP: None OSHA HCS 2012: None	NA

See Section 11 for Toxicological information

* **Section 4. First-Aid Measures**

Description of first aid measures

- **Inhalation:** *First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If symptoms/signs of difficulty breathing develop, move person to fresh air. Administer oxygen if breathing is difficult. If breathing stops, give artificial respiration and seek immediate medical attention.*
- **Skin Contact:** *First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Wash skin with soap and water. If signs of irritation develop, seek medical attention.*
- **After eye contact:** *First aid is not expected to be necessary if material is used as recommended under normal conditions. Check for and remove contact lenses. Rinse opened eye with clean, running water. Seek medical attention.*
- **After Ingestion:** *First aid is not expected to be necessary if material is used as recommended under normal conditions. If ingested, induce vomiting. If signs/symptoms develop seek medical attention.*

Most important symptoms and effects, both acute and delayed

Refer to Section 11- Toxicological Information.

Indication of any immediate medical attention and special treatment needed

- **Notes to physician:**
All symptoms should be based upon observed signs and symptoms of distress by patient. Consideration should be given that the patient may have been exposed and is reacting from overexposure to materials other than this product. Call a Physician immediately.

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* Section 5. Fire-Fighting Measures

Extinguishing media

- **Suitable extinguishing agents:** Carbon Dioxide, extinguishing powder, or foam.
- **For safety reasons unsuitable extinguishing agents:** None known.

Special hazards arising from the substance or mixture

- **Unusual fire and explosion conditions:** Does not present and special fire or explosion hazards.
- **Hazardous Thermal Decomposition Products:** Upon reaching temperatures of combustion, material produces toxic and/or corrosive fumes. Carbon Dioxide, Carbon Monoxide, Methane, Propane, Aldehydes and other vapors.

Advise for Firefighters

- **Protective equipment:** Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face operated in positive pressure mode. Structural firefighters protective clothing will only provide limited protection.

* Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- **Personal precautions:** No special precautions are expected to be necessary if material is used as recommended under normal conditions.
- **Emergency procedures:** No emergency procedures are expected to be necessary if material is used as recommended under normal conditions.
- **Environmental precautions:** No special precautions are necessary.

Methods and material for containment and clean-up

- **Containment and clean-up measures:** Pick up pieces and place in bag or container for disposal.

Reference to other sections

Refer to section 8- Exposure Controls and Personal Protection and Section 13- Disposal Considerations.

* Section 7. Handling and Storage

Precautions for safe handling

- **Handling:**
Ensure proper air ventilation/exhaust at the workplace. Under normal handling conditions, protective gloves, glasses, and clothing are adequate.

Conditions for safe storage, including any incompatibilities

- **Storage:** Store in cool, dry, well ventilated place

Specific end use(s)

Refer to Section 1. relevant identified use (s).

* Section 8. Exposure Controls/Personal Protection

Control parameters

- **Exposure Limits/Guidlines:** No exposure guideline/limits available for the material or the components.

Exposure controls

- **Engineering measures/Controls:** Under normal conditions, special ventilation is not required.

Personal Protective Equipment

- **Respiratory:** Respiratory protection is not required under normal conditions of use.
- **Eye/Face:** Under normal conditions of use, eye protection is recommended.
- **Skin/Body:** Under normal conditions of use, gloves, shirt, shoes, pants is recommended.

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- **Environmental Exposure Controls**

Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH=American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

STEV = Short Term Exposure Value

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages based on 8hr/day, 40h/week exposures

* Section 9. Physical and Chemical Properties

- Information on basic physical and chemical properties

Material Description			
Physical Form	Solid	Appearance/Description	Thin sheet in roll various colors
Color	White or Grey	Odor	Slight odor
General Properties			
Odor Threshold	No Data		
Boiling Point	Not relevant	Melting Point	350
Decomposition Temperature	Data lacking	pH	Not relevant
Specific Gravity/Relative Density	0.9 - 1.2	Water Solubility	Insoluble
Viscosity	Not relevant	Explosive Properties	Not relevant.
Oxidizing Properties:	Not relevant		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not relevant		
Environmental	No additional physical and chemical parameters noted.		
Octanol/Water Partition coefficient	Data lacking		

* Section 10. Stability and Reactivity

- **Reactivity:** No dangerous reactions known when used as recommended under normal conditions.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** Hazardous polymerization will not occur
- **Conditions to avoid:** Avoid open flames, sparks, and other sources of ignition.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Thermal decomposition could produce CO, CO₂, methane, propane, aldehydes and other organic vapors.

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*** Section 11. Toxicological Information**

Information on toxicological effects

- **Material information:** This material is an article that does not release or otherwise result in exposure to a hazardous chemical when used as recommended under normal conditions. The information provided below is for components only and is not expected to be applicable to the material as a whole.

GHS Properties	Classification
• Acute Toxicity	<i>EU/CLP • Not relevant OSHA HCS 2012 • Not relevant</i>
• Germ Cell Mutagenicity	<i>EU/CLP • Not relevant OSHA HCS 2012 • Not relevant</i>
• Skin Corrosion/irritation	<i>EU/CLP • Not relevant OSHA HCS 2012 • Not relevant</i>
• Skin Sensitization	<i>EU/CLP • Not relevant OSHA HCS 2012 • Not relevant</i>
• STOE-RE	<i>EU/CLP • Not relevant OSHA HCS 2012 • Not relevant</i>
• STOT-SE	<i>EU/CLP • Not relevant OSHA HCS 2012 • Not relevant</i>
• Toxicity for Reproduction	<i>EU/CLP • Not relevant OSHA HCS 2012 • Not relevant</i>
• Respiratory Sensitization	<i>EU/CLP • Not relevant OSHA HCS 2012 • Not relevant</i>
• Serious Eye Damage/Irritation	<i>EU/CLP • Not relevant OSHA HCS 2012 • Not relevant</i>

Potential Health Effects

• Skin	
• Acute (Immediate)	<i>Under normal conditions of use, no health effects are expected.</i>
• Chronic (Delayed)	<i>Under normal conditions of use, no health effects are expected.</i>
• Eye	
• Acute (Immediate)	<i>Under normal conditions of use, no health effects are expected.</i>
• Chronic (Delayed)	<i>Under normal conditions of use, no health effects are expected.</i>
• Ingestion	
• Acute (Immediate)	<i>Under normal conditions of use, no health effects are expected.</i>
• Chronic (Delayed)	<i>Under normal conditions of use, no health effects are expected.</i>
• Inhalation Acute	
• (Immediate)	<i>Under normal conditions of use, no health effects are expected.</i>
• Chronic (Delayed)	<i>Under normal conditions of use, no health effects are expected.</i>
• Reproductive Effects	<i>No Reproductive effects expected.</i>

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*** Section 12. Ecological Information**

Toxicity

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.

Behavior in environmental systems

- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.

Ecotoxicological effects

- **Remark:** No further relevant information available.

Additional ecological information

- **General notes:** At present there are no ecotoxicological assessments.

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

*** Section 13. Disposal Considerations**

Waste treatment methods

- **Product waste**
- **Recommendation:** Dispose of waste product and/or container according to local, regional, state, and national/international regulations.

Packaging waste

- **Recommendation:** Dispose of packaging or container according to local, regional, state, and national/international regulations.
- **RCRA Hazard Class:** None

*** Section 14. Transport Information**

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
ADN	NDA	Not Regulated	NDA	NDA	NDA
ADR/RID	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

• **Special precautions for user**

None known.

• **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

None known.

*** Section 15. Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA Hazard Classifications:** None

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*** Section 15. Regulatory Information (continued)**

Canada

• **Labor**

• **Canada - WHMIS - Classifications of Substances: Not Listed**

• **Canada - WHMIS - Ingredient Disclosure List: Not Listed**

• **Environment**

• **Canada - CEPA - Priority Substances List: Not Listed**

United States

• **Labor**

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals: Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants: Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities: Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable : Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs: Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs: Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting: Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical: Not Listed

United States - California

• **Environment U.S. - California - Proposition 65**

WARNING: This product was manufactured with chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Other state regulations may apply. Check individual state requirements. The following components appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
Proprietary		X					

United States - Pennsylvania

• **Labor**

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List: Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances: Not Listed

Chemical Safety Assessment: Chemical Safety Assessment is not required.

*** Section 16. Other Information**

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Roofing Products International, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Roofing Products International, Inc. or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

- **Department issuing SDS:** Technical Services Department.
- **Creation Date:** 08/12/2000
- **Date of preparation:** 01/23/2015
- **Last revision:** Format update

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- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

End of SDS