

Article Number 107 Revision Number 2 Revision Date 01/23/2015

### \* Section 1. Identification

**Product identifier:** EPDM Pipe Boot with Tape

- Tradename: Royal Edge Pipe Boot with Tape, Re-Flex EPDM Pipe Boot with Tape
- 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 Skin Irritation 2 - H315 Skin

Sensitization 1 - H317

• **DSD/DPD** Irritant (Xi)

Sensitizer R38, R43

Label Elements WARNING

• CLP

 $\Diamond$ 

*Hazard statements* H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

Precautionary statements

• *Prevention P261 - Avoid breathing dust/fume.* 

P264 - Wash thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

• Response P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P321 - Specific treatment, see supplemental first aid information. P362 - Take off contaminated clothing and wash before reuse.

• *Storage/Disposal* P501 - Dispose of content and/or container in accordance with local, regional,

national, and/or international regulations.

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• Trade name: Royal Edge EPDM Pipe Boot with Tape, Re-Flex EPDM Pipe Boot with Tape

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• DSD/DPD



• Risk phrases R38 - Irritating to skin.

R43 - May cause sensitisation by skin contact.

• Safety phrases S24 - Avoid contact with skin.

S37 - Wear suitable gloves.

S45 - In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

Other Hazards

• *CLP* According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

• **DSD/DPD** According to European Directive 1999/45/EC this preparation is considered dangerous.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

• OSHA HCS 2012 Skin Irritation 2 - H315 Skin Sensitization 1A - H317

Label elements

• OSHA HCS 2012

#### WARNING



• **Hazard statements** Causes skin irritation - H315

May cause an allergic skin reaction - H317

Precautionary statements

• **Prevention** Avoid breathing dust/fume. - P261

Wash thoroughly after handling. - P264

Contaminated work clothing should not be allowed out of the workplace.- P272 Wear protective gloves/protective clothing/eye protection/face protection.- P280

• Response If skin irritation occurs: Get medical advice/attention. - P332+P313

IF ON SKIN: Wash with plenty of soap and water. - P302+P352

Specific treatment, see supplemental first aid information. - P321

If skin irritation or rash occurs: Get medical advice/attention. - P333+P313

Take off contaminated clothing and wash before reuse. - P362

• Storage/Disposal Dispose of content and/or container in accordance with local, regional, national,

and/or international regulations. - P501

Other hazards

• OSHA HCS 2012 Under United States Regulations (29 CFR 1910.1200 - Hazard Communication

Standard), this product is considered hazardous.

Canada

• According to WHMIS

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# Safety Data Sheet acc. to OSHA HCS

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### Classification of the substance or mixture

• WHMIS

Other Toxic Effects - D2B

Label elements

• WHMIS

Other Toxic Effects - D2B



### Other hazards

• WHMIS

In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

See Section 12 for Ecological Information.

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

• Substances

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
Resin	NDA	4% TO 13%	NDA	EU DSD/DPD: Self Classified: Xi R36/37/38 EU CLP: Self Classified: Eye Irrit. 2A, H319; Skin Irrit. 2, H315; STOT SE 3 - Resp., H335 OSHA HCS 2012: Eye Irrit. 2A; Skin Irrit. 2; STOT SE 3 - Resp.	NDA
Talc	CAS:14807-96- 6 EC Number:238- 877-9	0% TO 6%	NDA	EU DSD/DPD: Self Classified: Xn R48/20 EU CLP: Self Classified: STOT RE 1, H372 OSHA HCS 2012: STOT RE 1 (Lungs)	NDA
Calcium oxide	CAS:1305-78-8 EC Number:215- 138-9	1% TO 5%	NDA .	EU DSD/DPD: Self Classified: C R34 EU CLP: Self Classified: Skin Corr. 1C, H314; Eye Dam. 1, H318 OSHA HCS 2012: Skin Corr. 1C; Eye Dam. 1 EU	NDA .
Phenol, p-(1,1,3,3- tetramethylbutyl)-	CAS:140-66-9 EINECS:205- 426-2	2% TO 4%	Skin-Rabbit LD50 1880 mg/kg Ingestion/Oral Rat LD50 > 2000 mg/kg	DSD/DPD: Annex I: Xi R38-41; N R50-53 EU CLP: Annex VI: Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Eye Irrit. 2A; Skin Irrit. 2; Repr. 2	NDA
Mineral oil, petroleum distillates, hydro- treated (mild) heavy naphthenic	CAS:64742-52- 5 EC Number:265- 155-0	0% To 4%	NDA	EU DSD/DPD: Annex I: Carc. 2; R45 EU CLP: Annex VI: Carc. 1B, H350 OSHA HCS 2012: Skin Irrit. 2	NDA
Carbon Black	CAS: 1333-86-4 ECNumber: 215- 609-9	1% To 4%	Skin-Rabbit LD50 >3 g/kg Ingestion/Oral-Rat LD50 >15400 mg/kg	EU DSD/DPD: None EU CLP: None OSHA HCS 2012: Carc. 2	NDA

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Zinc oxide	CAS: 1314-13-2 EC Number: 215- 222-5	0.5% To 2.5%	NDA	EU DSD/DPD: Annex I: N; R50-53 EU CLP: Annex VI: Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Eye Irrit. 2B	NDA
p-Benzoquinone, 2,3, 5,6-tetrachloro-	CAS: 118-75-2 EC Number: 204-274-4	0% To 1.5%	Ingestion/Oral-Rat LD50 • 4 g/kg	EU DSD/DPD: Annex I: Xi R36/38 N R50-53 EU CLP: Annex VI: Eye Irrit. 2, H319; Skin Irrit. 2, H315; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Eye Irrit. 2A; Skin Irrit. 2; STOT RE 3: Resp. Irrit. & Narc.; Acute Tox. 4 (Inhl)	NDA
TMDS	CAS: 137-26-8 EC Number: 205-286-2	0% To 1%	Ingestion/Oral-Rat LD50 • 560 mg/kg Inhalation-Rat LC50 500 mg/m³ 4 Hour(s)	EU DSD/DPD: Annex I: Xn R20/22 - 48/22 Xi R36/38; R43 N R50-53 EU CLP: Annex VI: Acute Tox. 4, H332; Acute Tox. 4, H302; STOT RE 2, H373; Eye Irrit. 2, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1A; Acute Tox. 4 (Oral); Acute Tox. 2 (Inhl)	NDA
MBTS	CAS: 120-78-5 EC Number: 204-424-9	0% To 1%	Ingestion/Oral-Rat LD50 >12 g/kg Skin-Rabbit LD50 >7940 mg/kg	EU DSD/DPD: Annex I: R31 R43 N; R50-53 EU CLP: Annex VI: Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Skin Sens. 1A	NDA

Refer to Section 11 for Toxicological Information.

### Section 4. First-Aid Measures

 Inhalation First aid is not expected to be necessary if material is used under ordinary conditions

and as recommended. If signs/symptoms develop, move person to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration

if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin Remove material from skin with waterless hand cleaners followed by washing with soap

and water. If signs/symptoms develop, get medical attention.

First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If contact with material occurs flush eyes with water. If signs/symptoms develop, get medical attention.

• Ingestion First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, get 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

#### Note to physician

Eye

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

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### \* Section 5. Fire-Fighting Measures

### Extinguishing media

- Suitable Extinguishing Media: Water, foam, dry chemical, carbon dioxide (CO2).
- Unsuitable Extinguishing Media: None known.

### Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards: Material releases toxic and corrosive gases/vapors when burned.
- Hazardous Combustion Products: Nitrous oxides, sulfur oxides, carbon oxides.

### Advice for firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece 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 expected to be necessary if material is used

under ordinary conditions as recommended.

• Emergency Procedures No emergency procedures are expected to be necessary if material is

used under ordinary conditions as as recommended. Use normal clean up procedures.

Environmental precautions

No special precautions necessary.

### Methods and material for containment and cleaning up

• Containment/Clean-up Measures Pick up pieces and place in container or bag for disposal.

### Reference to other sections

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

### \* Section 7. Handling and Storage

### Precautions for safe handling

• Handling

Do not handle at temperatures in excess of 130° F. Avoid prolonged or repeated contact with the skin. Use good safety and industrial hygiene practices. Product readily removed from the skin with waterless hand cleaners followed by washing with soap and water.

### Conditions for safe storage, including any incompatibilities

Storage

Store in a cool, dry place. Do not store at temperatures in excess of 130° F.

• Specific end uses

Refer to Section 1.2 - Relevant identified uses.

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## \* Section 8. Exposure Controls/Personal Protection

			Exposure Lim	its/Guidelines		
	Result	ACGIH	Belgium	Canada Alberta	Canada British Columbia	Canada Manitoba
Formaldehyde (50-00-0)	Ceilings	0.3 ppm Ceiling	Not Established	1 ppm Ceiling; 1.3 mg/m3 Ceiling	1 ppm Ceiling	0.3 ppm Ceiling
	TWAs	Not Established	Not Established	2097"rro "VY C= '20' 'o i lo 5"VY C	0.3 ppm TWA	Not established
TMDS *359/48/: +	TWAs	2027 o i lo 5 VY C" *kpj crcdrg'htcevkqp" cpf "xcrqt+	2027"o i lo 5"VY C"  *egtquqn"epf "xerqt += 20227"rro "VY C"  *egtquqn"epf "xerqt +	3"o i lo 5"VY C "	3"o i lo 5"VY C	2027'b i b 5"VY C' *kpj crcdrg'It cevkqp cpf "xcrqt+
Talc *36: 29/; 8/8+	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	2 mg/m3 TWA	2 mg/m3 TWA *i gur ki cdig particulate)"	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate)	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)
3/Rt qr gpg."4/ methyl-*337/33/9+	TWAs	472"rro "VY C"*haogf" wpf gt "Dwypgu "cm" kuqo gt u+	472"rro "VY C=" 7: 5"o i lo 5"VY C	Not Established	Not Established	472"rro "VY C "rkngf "vpf gt Dwgpgu."cnikuqo gt i
ENB (16219-75-3)	Ceilings	5 ppm Ceiling	Not Established	5 ppm Ceiling; 25 mg/m	5 ppm ceiling	5 ppm Ceiling
Sulfur (7704-34-9)	TWAs	Not established	Not established	10 mg/m3 TWA	Not established	Not established
Zinc oxide (1314-13-2)	STELs	10 mg/m3 STEL (respirable fraction)	10 mg/m3 STEL (fume)	10 mg/m3 STEL (respirable)	10 mg/m3 STEL ( respirable)	10 mg/m3 STEL (respirable fraction
	TWAs	2 mg/m3 TWA (respirable fraction)	0 mg/m3 TWA (dust); 5 mg/m3 TWA (fume)	2 mg/m3 TWA (respirable)	2 mg/m3 TWA (respirable)	2 mg/m3 TWA (respirable fraction
Carbon Black (1333-86-4)	TWAs	3 mg/m3 TWA (inhalable fraction)	3.5 mg/m3 TWA	3.5 mg/m3 TWA	3 mg/m3 TWA (inhalable)	3 mg/m3 TWA (inhalable fraction
		Ex	posure Limits/Gui	idelines Continued	i	
Formaldehyde	Result	Canada New Brunswick	Canada Nunavut	Canada Nova Scotia	Canada Northwest Territories	Canada Ontario
(50-00-0)	STELs	1.5 ppm STEL	Not established	Not established	Not established	1.0 ppm STEL
	TWAs	0.5 ppm TWA	Not established	Not established	Not established	Not established
·	Ceilings	Not established	2 ppm Ceiling; 2.4 mg/m3 Ceiling	0.3 ppm Ceiling	2 ppm Ceiling; 2.4 mg/m3 Ceiling	1.5 ppm Ceiling
	TWAs	5 mg/m3 TWAEV	1 mg/m3 TWA	5 mg/m3 TWA	5 mg/m3 TWA	5 mg/m3 TWA
TMDS	STELs	Not established	Not established	10 mg/m3 STEL	Not established	Not established
(137-26-8)	Ceiling	Not established	Not established	Not established	Not established	Not established
	MAKs	Not established	Not established	Not established	Not established	Not established
Talc (14807-96-6)	TWAs	3 mg/m3 TWAEV (respirable dust)	2 mg/m3 TWA (respirable fraction)	20 mppcf TWA	2 mg/m3 TWA (containing no Asbestos and <1% Quartz, respirable dust)	Not established

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1-Propene, 2- methyl- (115-11-7)	TWAs	Not established	Not established	250 ppm TWA (liste under Butenes, all isomers)	d Not established	250 ppm TWA (listed under Butenes, all isomers)
ENB (16219-75-3)	Ceilings	5 ppm Ceiling; 25 mg/m3 Ceiling	5 ppm Ceiling; 25 mg/m3 Ceiling	5 ppm Ceiling	5 ppm Ceiling; 25 mg/m3 Ceiling	5 ppm Ceiling
Zinc oxide ·(1314-13-2)	STELs	10 mg/m3 STEL (fume)	10 mg/m3 STEL (fume)	10 mg/m3 STEL (respirable fraction	10 mg/m3 STEL (fume)	10 mg/m3 STEL (respirable)
	TWAs	10 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, dust); 5 mg/ m3 TWA (fume)	5 mg/m3 TWA (fume); 5 mg/m3 TWA (dust, res- pirable mass); 10 mg/m3 TWA (total mass, dust)	2 mg/m3 TWA (respirable fraction	5 mg/m3 TWA (fume); 5 mg/m3 TWA (dust, respirable mass); 10 mg/m3 TWA (total mass, dust)	
Carbon Black (1333-86-4)	TWAs	3.5 mg/m3 TWA	3.5 mg/m3 TWA	3 mg/m3 TWA (inhalable fraction)	3.5 mg/m3 TWA	3.5 mg/m3 TWA
	STELs	Not established	7 mg/m3 STEL	Not established 7 mg/m3 STEL		Not established
		Exp	osure Limits/Guid	delines Continued	!	
	Result	Canada Quebec	Canada Saskatchewan	Canada Yukon	NIOSH	OSHA
	STELs	Not established	Not established	Not established	Not established	2 ppm STEL (see 29 CF. 1910.1048)
Formaldehyde (50-00-0)	Ceilings	2 ppm Ceiling; 3 mg/m3 Ceiling	Not established	2 ppm Ceiling; 3 mg/m3 Ceiling	0.1 ppm Ceiling (15 min)	Not established
	TWAs	Not established	Not established	Not established	0.016 ppm TWA	0.75 ppm TWA
	TWAs	5 mg/m3 TWAEV	1 mg/m3 TWA	5 mg/m3 TWA	5 mg/m3 TWA	5 mg/m3 TWA
TMDS	STELs	Not established	Not established	10 mg/m3 STEL	Not established	Not established
(137-26-8)	Ceiling	Not established	Not established	Not established	Not established	Not established
	MAKs	Not established	Not established	Not established	Not established	Not established
Talc (14807-96-6)	TWAs	3 mg/m3 TWAEV (respirable dust)	2 mg/m3 TWA (respirable fraction)	20 mppcf TWA	2 mg/m3 TWA (containing no Asbestos and <1% Quartz, respirable dust)	Not established
Isoprene	Ceilings	Not established	Not established	Not established	Not established	Not established
(78-79-5)	MAKs	Not established	Not established	Not established	Not established	Not established
ENB (16219-75-3)	Ceilings	5 ppm Ceiling; 25 mg/m3 Ceiling	Not established	5 ppm Ceiling; 25 mg/m3 Ceiling	5 ppm Ceiling; 25 mg/m3 Ceiling	Not established
	TWAs	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust); 5 mg/m3 TWAEV (fume)	2 mg/m3 TWA (dust and fume, respirable fraction)	5 mg/m3 TWA (fume); 30 mppcf TWA (dust); 10 mg/m3 TWA (dust)	5 mg/m3TWA dust and fume)	5 mg/m TWA (fume 15 mg/m TWA tota dust)5 mg/m TWA (respirable fraction
	STELs	10 mg/m3 STEV (fume)	Not established	10 mg/m3 STEL (fume); 20 mg/m3	10 mg/m3 STEL (fume)	Not established
Zinc oxide (1314-13-2)				STEL (dust)		

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Zinc oxide (1314-13-2)	MAKs	Not established	Not established	Not established	Not established	1 mg/m3 TWA MAK (fume, respirable fraction)
Carbon Black	TWAs	3.5 mg/m3 TWAEV	3.5 mg/m3 TWA	3.5 mg/m3 TWA	3.5 mg/m3 TWA; 0.1 mg/m3 TWA (Carbon	3.5 mg/m3 TWA
(1333-86-4)		Not established	Not established	7 mg/m3 STEL	<ul> <li>mg/m3 1WA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)</li> </ul>	

### Exposure controls

- Engineering Measures/Controls Under normal conditions of use, special ventilation is not required.
- Personal Protective Equipment
- Respiratory No respiratory protection is required under normal conditions of use.
- Eye/Face Under normal conditions of use, eye protection is not required. Wear
- Skin/Body appropriate gloves.

Follow best practice for site cleanup and disposal of waste.

### **Environmental Exposure Controls**

#### 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 Time-Weighted Averages are based on 8h/day, 40h/ week TWA exposures

### Section 9. Physical and Chemical Properties

### • Information on Physical and Chemical Properties

	Materia	l Description	
Physical Form	Solid	Appearance/Description	Black solid (EPDM) laminated to tape. No odor.
Color	Black	Odor	None
Odor Threshold	None		
	Gener	ral Properties	
Boiling Point	Not relevant	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pН	Not relevant
Specific Gravity/Relative Density	0.97 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	Not relevant	Explosive Properties	Not relevant.
Oxidizing Properties	Not relevant.		
	V	<b>Solatility</b>	
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant	Volatiles (Vol.)	0.7 %
	Fla	ammability	
Flash Point	> 200 C(> 392 F)	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not flammable.		
	Env	vironmental	

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	Gener	al Properties	
Boiling Point	Not relevant	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pН	Not relevant
Specific Gravity/Relative Density	0.97 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	Not relevant	Explosive Properties	Not relevant.
Oxidizing Properties	Not relevant.		
	V	olatility	
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant	Volatiles (Vol.)	0.7 %
	Fla	ımmability	
Flash Point	> 200 C(> 392 F)	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not flammable.		
	Env	rironmental	
Octanol/Water Partition coefficient	Data lacking		

### • Other Information

No additional physical and chemical parameters noted.

### \* Section 10. Stability and Reactivity

### Reactivity

• Chemical stability

No dangerous reaction known under conditions of normal use.

• Possibility of hazardous reactions

Stable under normal temperatures and pressures. Hazardous polymerization will not occur.

• Conditions to avoid

Temperatures in excess of 130° F.

• Incompatible materials

No data available.

• Hazardous decomposition products

Thermal decomposition could produce CO, CO2, and Oxides of Nitrogen.

## \* Section 11. Toxicological Information

Component Name	CAS	Data
Phenol, p-(1,1,3,3-tetramethylbutyl)- (2% TO 4%)	140-66-9	Acute Toxicity: orl-rat LD50:4600 mg/kg; skn-rbt LD50:1880 mg/kg; Irritation: eye-rbt 50 ug/24H SEV; skn-rbt 20 mg/24H MOD; Reproductive: orl-mus TDLo:2.4 mg/kg (10-21D preg/12D post); orl-mus TDLo:14000 ng/kg (11-17D preg); orl-rat TDLo:250.4 mg/kg (0-8D preg)
Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic (0% TO 4%)	64742-52-5	Irritation: skn-rbt 500 mg SEV
Carbon Black (1% TO 4%)	1333-86-4	Acute Toxicity: orl-rat LD50:>15400 mg/kg; skn-rbt LD50:>3 gm/kg; Tumorigen/Carcinogen: ihl-rat TCLo:11600 ug/m3/18H/2Y-l

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Component Name	CAS	Data		
Talc (0% TO 6%)	14807-96-6	Irritation: skn-hmn 300 ug/3D-I MLD; Tumorigen/ Carcinogen: ihl-rat TC:11 mg/m3/1Y-I		
Zinc oxide (0.5% TO 2.5%)	1314-13-2	Irritation: eye-rbt 500 mg/24H MLD; skn-rbt 500 mg/24H MLD; Reproductive: orl-rat TDLo:6846 mg/kg (1-22D preg)		
MBTS (0% TO 1%)	120-78-5	Acute Toxicity: orl-rat LD50:>12 gm/kg; skn-rbt LD50:>7940 mg/kg		
p-Benzoquinone, 2,3,5,6-tetrachloro- (0% TO 1.5%)	118-75-2	Acute Toxicity: orl-rat LD50:4 gm/kg; ihl-rat LC50:2485 mg/m3/4H		
TMDS (0% TO 1%) 137-26-8		Acute Toxicity: Ingestion/Oral-Rat LD50 • 560 mg/kg; ihl-rat LC50:500 mg/m3/4H; Irritation: eye-rbt 100 mg/24H MOD; Reproductive: orl-rat TDLo:300 mg/kg (15D preg); Tumorigen/Carcinogen: orl-rat TDLo:108 mg/kg/1Y-C		
GHS Properties		Classification		
Acute toxicity		EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Aspiration Hazard		EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Carcinogenicity		EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Germ Cell Mutagenicity		EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Skin corrosion/Irritation		EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2		
Skin sensitization		EU/CLP • Skin Sensitizer 1 OSHA HCS 2012 • Skin Sensitizer 1A		
STOT-RE		EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
STOT-SE		EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Toxicity for Reproduction		EU/CLP • Classification criteria not met  OSHA HCS 2012 • Classification criteria not met		
Respiratory sensitization		EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met		
Serious eye damage/Irritation		EU/CLP • Classification criteria not met  OSHA HCS 2012 • Classification criteria not met		

### • Potential Health Effects Inhalation

• Acute (Immediate)

Under normal conditions of use, no health effects are expected.

• Chronic (Delayed)

Under normal conditions of use, no health effects are expected.

• Skin

• Acute (Immediate)

Causes skin irritation. May cause an allergic skin reaction. Under

• Chronic (Delayed) normal conditions of use, no health effects are expected.

• *Eye* 

Acute (Immediate)Chronic (Delayed)

Direct contact with tape may cause mechanical irritation.

Under normal conditions of use, no health effects are expected.

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• Ingestion

• Acute (Immediate) Under normal conditions of use, no health effects are expected.

• Chronic (Delayed) Under normal conditions of use, no health effects are expected.

• Carcinogenic Effects

Although this material does contain several components that are either carcinogens or potential carcinogens the material as a whole is not classified as a carcinogen according to regulatory guidelines. The carbon black is encapsulated within the matrix of this material and no exposure is expected. The isoprene and formaldehyde components are both in this material at low enough concentrations that this material is not classified as a carcinogen per agency guidelines.

Carcinogenic Effects						
	CAS	OSHA	IARC	NTP		
Formaldehyde	50-00-0	Specifically Regulated Carcinogen	Group 1-Carcinogenic	Known Human Carcinogen		
Isoprene	78-79-5	Not Listed	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen		
Carbon Black	1333-86-4	Not Listed	Group 2B-Possible Carcinogen	Not Listed		
Key to abbreviations		SEV = Severe	•	·		
LC = Lethal Concentration		TC = Toxic Concentration				
LD = Lethal L	Oose	$TD = Toxic\ Dose$				

## \* Section 12. Ecological Information

Toxicity

MLD = Mild MOD = Moderate

- 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.
- Ecotoxical effects
- *Remark:* No further relevent 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 handling
- Recommendation: Dispose of waste product and/or container according to local, regional, state, and national/
- international regulations.
- Packaging waste handling
- Recommendation: Dispose of packaging or container according to local, regional, state, and national/international regulations.

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• Trade name: Royal Edge EPDM Pipe Boot with Tape, Re-Flex EPDM Pipe Boot with Tape

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## \* 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 Not Relevent.

## Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications Acute

State Right To Know							
Component	CAS	MA	NJ	PA			
1-Propene, 2-methyl-	115-11-7	Yes	Yes	Yes			
ENB	16219-75-3	Yes	Yes	Yes			
MBTS	120-78-5	No	No	No			
Calcium oxide	1305-78-8	Yes	Yes	Yes			
Carbon Black	1333-86-4	Yes	Yes	Yes			
TMDS	137-26-8	Yes	Yes	Yes			
Ethylene propylene diene rubber	25038-36-2	No	No	No			
Formaldehyde	50-00-0	Yes	Yes	Yes			
Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic	64742-52-5	No	No	No			
Isobutylene-Isoprene polymer	9010-85-9	No	No	No			
Isoprene	78-79-5	Yes	Yes	Yes			
p-Benzoquinone, 2,3,5,6-tetrachloro-	118-75-2	No	No	No			
Phenol, 4-methyl	68610-51-5	No	No	No			
Phenol, p-(1,1,3,3-tetramethylbutyl)-	140-66-9	No	No	No			
Polybutene	9003-29-6	No	No	No			
Sulfur	7704-34-9	Yes	Yes	Yes			
Talc	14807-96-6	Yes	Yes	Yes			
Zinc oxide	1314-13-2	Yes	Yes	Yes			

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• Trade name: Royal Edge EPDM Pipe Boot with Tape, Re-Flex EPDM Pipe Boot with Tape

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		Inventory		
Component	CAS	Canada DSL	Canada NDSL	
1-Propene, 2-methyl-	115-11-7	Yes	No	
ENB	16219-75-3	No	Yes	
MBTS	120-78-5	Yes	No	
Calcium oxide	1305-78-8	Yes	No	
Carbon Black	1333-86-4	Yes	No	
TMDS	137-26-8	Yes	No	
Ethylene propylene diene rubber	25038-36-2	Yes	No	
Formaldehyde	50-00-0	Yes	No	
Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic	64742-52-5	Yes	No	
Isobutylene-Isoprene polymer	9010-85-9	Yes	No	
Isoprene	78-79-5	Yes	No	
p-Benzoquinone, 2,3,5,6-tetrachloro-	118-75-2	Yes	No	
Phenol, 4-methyl	68610-51-5	Yes	No	
Phenol, p-(1,1,3,3-tetramethylbutyl)-	140-66-9	Yes	No	
Polybutene	9003-29-6	Yes	No	
Sulfur	7704-34-9	Yes	No	
Talc	14807-96-6	Yes	No	
Zinc oxide	1314-13-2	Yes	No	
Canada Labor Canada - WHMIS - Classifica • Phenol, 4-methyl	68610-51-5	inces		Not Listed
• Isobutylene-Isoprene polymer	9010-85-9			Not Listed
• Isoprene	78-79-5			Not Listed
• 1-Propene, 2-methyl-	115-11-7			Not Listed
• MBTS • Ethylene propylene diene rubber	120-78-5 25038-36-2			Not Listed  Not Listed
• TMDS	137-26-8			Not Listed
• Formaldehyde	50-00-0			Not Listed A, B1, D1A, D2A, D2B; B3, 1A, D2A, D2B, E (regulated under Formol)
• Calcium oxide	1305-78-8			E
• Carbon Black	1333-86-4			D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues -Carbon Black, nonrespirable on Health Canada's WHMIS Division website.) D2A Uncontrolled product according to WHMIS classification criteri

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• Trade name: Royal Edge EPDM Pipe Boot with Tape, Re-Flex EPDM Pipe Boot with Tape

	(Contd. of page 13)	
Talc 1	4807-96-6	D2A
Zinc oxide	1314-13-2	Uncontrolled product according to WHMIS classification criteria
Zinc oxide as Zinc compounds		Not Listed
Polybutene	9003-29-6	Uncontrolled product according to WHMIS classification criteria
Sulfur	7704-34-9	B4
ENB 1	6219-75-3	B2, D1A, D2B
p-Benzoquinone, 2,3,5,6-tetrachloro-	118-75-2	Not Listed
Phenol, p-(1,1,3,3-tetramethylbutyl)-	140-66-9	Uncontrolled product according to WHMIS classification criteria
Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic 6	4742-52-5	Not Listed
Canada WHMIS - Ingredient Disclosure	e List	
Phenol, 4-methyl	68610-51-5	Not Listed
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
Isoprene	78-79-5	1 %
1-Propene, 2-methyl-	115-11-7	Not Listed
MBTS	120-78-5	1 %
Ethylene propylene diene rubber	25038-36-2	Not Listed
TMDS	137-26-8	1 %
Formaldehyde	50-00-0	0.1 %
Calcium oxide	1305-78-8	1 %
Carbon Black	1333-86-4	1 %
Talc	14807-96-6	Not Listed
Zinc oxide	1314-13-2	1 %
Zinc oxide as Zinc compounds	1017 10 2	Not Listed
Polybutene	9003-29-6	Not Listed
Sulfur	7704-34-9	Not Listed
ENB	16219-75-3	1 %
p-Benzoquinone, 2,3,5,6-tetrachloro-	118-75-2	Not Listed
Phenol, p-(1,1,3,3-tetramethylbutyl)-	140-66-9	Not Listed
Mineral oil, petroleum distillates,	64742-52-5	Not Listed
hydrotreated (mild) heavy naphthenic	04/42-32-3	1101 Listett
Environment Canada - CEPA - Priority Substa	inces List	
Phenol, 4-methyl	68610-51-5	Not Listed
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
Isoprene	78-79-5	Not Listed
1-Propene, 2-methyl-	115-11-7	Not Listed
MBTS	120-78-5	Not Listed
Ethylene propylene diene rubber	25038-36-2	Not Listed
TMDS	137-26-8	Not Listed
Formaldehyde	50-00-0	Priortiy Substance List 2 (substance considered toxic)

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(Contd. of page 14)		
Calcium oxide	1305-78-8	Not Listed
Carbon Black	1333-86-4	Not Listed
Talc	14807-96-6	Not Listed
Zinc oxide	1314-13-2	Not Listed
Zinc oxide as Zinc compounds		Not Listed
Polybutene	9003-29-6	Not Listed
Sulfur	7704-34-9	Not Listed
ENB	16219-75-3	Not Listed
p-Benzoquinone, 2,3,5,6-tetrachloro-	118-75-2	
		Not Listed
Phenol, p-(1,1,3,3-tetramethylbutyl)-	140-66-9	Not Listed
Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic	64742-52-5	Not Listed
United States Labor U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
• Phenol, 4-methyl	68610-51-5	Not Listed
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Isoprene	78-79-5	Not Listed
• 1-Propene, 2-methyl-	115-11-7	Not Listed
• MBTS	120-78-5	Not Listed
Ethylene propylene diene rubber	25038-36-2	Not Listed
• TMDS	137-26-8	Not Listed
• Formaldehyde	50-00-0	1000 lb TQ
Calcium oxide	1305-78-8	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Talc	14807-96-6	Not Listed
• Zine oxide	1314-13-2	Not Listed
• Zinc oxide as Zinc compounds		Not Listed
• Polybutene	9003-29-6	Not Listed
• Sulfur	7704-34-9	Not Listed
• ENB	16219-75-3	Not Listed
• p-Benzoquinone, 2,3,5,6-tetrachloro-	118-75-2	Not Listed
• Phenol, p-(1,1,3,3-tetramethylbutyl)-	140-66-9	Not Listed
Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic	64742-52-5	Not Listed
U.S OSHA - Specifically Regulated Chemicals		
• Phenol, 4-methyl	68610-51-5	Not Listed
Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Isoprene	78-79-5	Not Listed
• 1-Propene, 2-methyl-	115-11-7	Not Listed
• MBTS	120-78-5	Not Listed
• Ethylene propylene diene rubber	25038-36-2	Not Listed
• TMDS	137-26-8	Not Listed
• Formaldehyde	50-00-0	2 ppm STEL (Irritant and potential cancer hazard, See 29 CFR 1910.1048,
		15 min); 0.5 ppm Action Level; 0.75 ppm TWA

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• Calcium oxide	1305-78-8	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Talc	14807-96-6	Not Listed
Zinc oxide	1314-13-2	Not Listed
Zinc oxide as Zinc compounds		Not Listed
Polybutene	9003-29-6	Not Listed
Sulfur	7704-34-9	Not Listed
ENB	16219-75-3	Not Listed
p-Benzoquinone, 2,3,5,6-tetrachloro-	118-75-2	Not Listed
Phenol, p-(1,1,3,3-tetramethylbutyl)-	140-66-9	Not Listed
Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic	64742-52-5	Not Listed
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants  • Phenol 4-methyl	68610-51-5	Not Listed
• Phenol, 4-methyl	68610-51-5	Not Listed
• Isobutylene-Isoprene polymer	9010-85-9	Not Listed
• Isoprene	78-79-5	Not Listed
• I-Propene, 2-methyl- • MBTS	115-11-7	Not Listed
	120-78-5 25038-36-2	Not Listed Not Listed
- Etherland and another diana milh an		
	137-26-8	Not Listed
U.S California - Proposition 65 - Carcinogens List: Not Listed U.S California - Proposition 65 - Developmental Toxicity: Not Listed	137-26-8	
• TMDS  U.S California - Proposition 65 - Carcinogens List: Not Listed	137-26-8	
U.S California - Proposition 65 - Carcinogens List: Not Listed U.S California - Proposition 65 - Developmental Toxicity: Not Listed	137-26-8  l (MAD): Not Listed	
U.S California - Proposition 65 - Carcinogens List: Not Listed U.S California - Proposition 65 - Developmental Toxicity: Not Listed U.S California - Proposition 65 - Maximum Allowable Dose Levels	l 137-26-8  d (MAD): Not Listed : Not Listed	
U.S California - Proposition 65 - Carcinogens List: Not Listed U.S California - Proposition 65 - Developmental Toxicity: Not Listed U.S California - Proposition 65 - Maximum Allowable Dose Levels U.S California - Proposition 65 - No Significant Risk Levels (NSRL):	l (MAD): Not Listed : Not Listed Vot Listed	
U.S California - Proposition 65 - Carcinogens List: Not Listed U.S California - Proposition 65 - Developmental Toxicity: Not Listed U.S California - Proposition 65 - Maximum Allowable Dose Levels U.S California - Proposition 65 - No Significant Risk Levels (NSRL): U.S California - Proposition 65 - Reproductive Toxicity - Female: N	l (MAD): Not Listed : Not Listed Vot Listed	
U.S California - Proposition 65 - Carcinogens List: Not Listed U.S California - Proposition 65 - Developmental Toxicity: Not Listed U.S California - Proposition 65 - Maximum Allowable Dose Levels U.S California - Proposition 65 - No Significant Risk Levels (NSRL): U.S California - Proposition 65 - Reproductive Toxicity - Female: N U.S California - Proposition 65 - Reproductive Toxicity - Male: Not	l (MAD): Not Listed : Not Listed Vot Listed	
U.S California - Proposition 65 - Carcinogens List: Not Listed  U.S California - Proposition 65 - Developmental Toxicity: Not Listed  U.S California - Proposition 65 - Maximum Allowable Dose Levels  U.S California - Proposition 65 - No Significant Risk Levels (NSRL):  U.S California - Proposition 65 - Reproductive Toxicity - Female: Not  U.S California - Proposition 65 - Reproductive Toxicity - Male: Not  United States - Pennsylvania	I 137-26-8  I (MAD): Not Listed  Not Listed  Listed  Listed  ist: 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
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Last revision: Format update

Article Number 107 Revision Number 2 Revision Date 01/23/2015

• Trade name: Royal Edge EPDM Pipe Boot with Tape, Re-Flex EPDM Pipe Boot with Tape

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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