

**Safety Data Sheet**

acc. to OSHA HCS

Article Number 312

Revision Number 2

Revision Date 01/23/2015

**\* Section 1. Identification****Product identifier:** *Uncured EPDM Flashing with Tape*

- **Trade name:** *Re-Flex Uncured Flashing with Tape, Royal Edge Uncured Flashing with Tape*
- **Product Code:** *UTW*
- **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**

- **CLP**

**WARNING****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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- **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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## 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	<b>EU DSD/DPD:</b> Self Classified: Xi R36/37/38 <b>EU CLP:</b> Self Classified: Eye Irrit. 2A, H319; Skin Irrit. 2, H315; STOT SE 3 - Resp., H335 <b>OSHA HCS 2012:</b> 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	<b>EU DSD/DPD:</b> Self Classified: Xn R48/20 <b>EU CLP:</b> Self Classified: STOT RE 1, H372 <b>OSHA HCS 2012:</b> STOT RE 1 (Lungs)	NDA
Calcium oxide	CAS:1305-78-8 EC Number:215-138-9	1% TO 5%	NDA	<b>EU DSD/DPD:</b> Self Classified: C R34 <b>EU CLP:</b> Self Classified: Skin Corr. 1C, H314; Eye Dam. 1, H318 <b>OSHA HCS 2012:</b> Skin Corr. 1C; Eye Dam. 1	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	<b>EU DSD/DPD:</b> Annex I: Xi R38-41; N R50-53 <b>EU CLP:</b> Annex VI: Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 <b>OSHA HCS 2012:</b> 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	<b>EU DSD/DPD:</b> Annex I: Carc. 2; R45 <b>EU CLP:</b> Annex VI: Carc. 1B, H350 <b>OSHA HCS 2012:</b> 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	<b>EU DSD/DPD:</b> None <b>EU CLP:</b> None <b>OSHA HCS 2012:</b> Carc. 2	NDA

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

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 (CO<sub>2</sub>).
- **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 Limits/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	207"rro "VY C= "2Q "b i b 5"VY C	0.3 ppm TWA	Not established
TMDS *359/48/: +	TWAs	207" o i b 5" VY C" *pj cxdg" hcevkp" cpf "xcrqt +	207"o i b 5"VY C" *cgt quqnl'c'pf "xcrqt +" 2027"rro "VY C" *cgt quqnl'c'pf "xcrqt +	3"o i b 5"VY C	3"o i b 5"VY C	207"b i b 5"VY C" *pj cxdg/hcevkp 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 *gur'k c dng 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 qrgpg."4/ methyl-*337/33/9+	TWAs	472"rro "VY C" *kagf "wpf gt "Dwpggu."cm" kuo gt u+	472"rro "VY C" 7: 5"b i b 5"VY C	Not Established	Not Established	472"rro "VY C *kagf "wpf gt Dwpggu."cm"kuo gt u+
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)

### Exposure Limits/Guidelines Continued

	Result	Canada New Brunswick	Canada Nunavut	Canada Nova Scotia	Canada Northwest Territories	Canada Ontario
Formaldehyde (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
TMDS (137-26-8)	TWAs	1 mg/m3 TWA	5 mg/m3 TWA	0.05 mg/m3 TWA (inhalable fraction and vapor)	5 mg/m3 TWA	0.05 mg/m3 TWA (inhalable fraction and vapor, listed under Thiram)
	STELs	Not established	10 mg/m3 STEL	Not established	10 mg/m3 STEL	Not established

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Talc (14807-96-6)	TWAs	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)	3 mg/m3 TWA (respirable mass); 6 mg/m3 TWA (total mass)	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)	3 mg/m3 TWA (respirable mass); 6 mg/m3 TWA (total mass)	2 mg/m3 TWA (containing no Asbestos and <1% Crystalline silica, respirable)
1-Propene, 2-methyl- (115-11-7)	TWAs	Not established	Not established	250 ppm TWA (listed under Butenes, all isomers)	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, respirable 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)	2 mg/m3 TWA (respirable)
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

### Exposure Limits/Guidelines Continued

	Result	Canada Quebec	Canada Saskatchewan	Canada Yukon	NIOSH	OSHA
Formaldehyde (50-00-0)	STELs	Not established	Not established	Not established	Not established	2 ppm STEL (see 29 CFR 1910.1048)
	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
TMDS (137-26-8)	TWAs	5 mg/m3 TWAEV	1 mg/m3 TWA	5 mg/m3 TWA	5 mg/m3 TWA	5 mg/m3 TWA
	STELs	Not established	Not established	10 mg/m3 STEL	Not established	Not established
	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 (78-79-5)	Ceilings	Not established	Not established	Not established	Not established	Not established
	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

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Zinc oxide (1314-13-2)	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/m3 TWA dust and fume)	5 mg/m TWA (fume); 15 mg/m TWA total dust) 5 mg/m TWA (respirable fraction)
	STELs	10 mg/m3 STEV (fume)	Not established	10 mg/m3 STEL (fume); 20 mg/m3 STEL (dust)	10 mg/m3 STEL (fume)	Not established
	Ceilings	Not established	Not established	Not established	15 mg/m Ceiling dust)	Not established
	MAKs	Not established	Not established	Not established	Not established	1 mg/m3 TWA MAK (fume, respirable fraction)
Carbon Black (1333-86-4)	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 black in presence of Polycyclic aromatic hydrocarbons, as PAH)	3.5 mg/m3 TWA
		Not established	Not established	7 mg/m3 STEL		

### 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.
  - **Skin/Body** Wear 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

Material Description	
Physical Form	Solid
Color	Black
Odor Threshold	None
Appearance/Description	Black solid (EPDM) laminated to tape. No odor.
Odor	None

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## General Properties

<b>Boiling Point</b>	Not relevant	<b>Melting Point</b>	Data lacking
<b>Decomposition Temperature</b>	Data lacking	<b>pH</b>	Not relevant
<b>Specific Gravity/Relative Density</b>	0.97 Water=1	<b>Water Solubility</b>	Negligible < 0.1 %
<b>Viscosity</b>	Not relevant	<b>Explosive Properties</b>	Not relevant.
<b>Oxidizing Properties</b>	Not relevant.		

## Volatility

<b>Vapor Pressure</b>	Not relevant	<b>Vapor Density</b>	Not relevant
<b>Evaporation Rate</b>	Not relevant	<b>Volatiles (Vol.)</b>	0.7 %

## Flammability

<b>Flash Point</b>	> 200 C(> 392 F)	<b>UEL</b>	Not relevant
<b>LEL</b>	Not relevant	<b>Autoignition</b>	Not relevant
<b>Flammability (solid, gas)</b>	Not flammable.		

## Environmental

<b>Octanol/Water Partition coefficient</b>	Data lacking
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### 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, CO<sub>2</sub>, 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	<b>Acute Toxicity:</b> orl-rat LD50:4600 mg/kg; skn-rbt LD50:1880 mg/kg; <b>Irritation:</b> eye-rbt 50 ug/24H SEV; skn-rbt 20 mg/24H MOD; <b>Reproductive:</b> 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	<b>Irritation:</b> skn-rbt 500 mg SEV
Carbon Black (1% TO 4%)	1333-86-4	<b>Acute Toxicity:</b> orl-rat LD50:>15400 mg/kg; skn-rbt LD50:>3 gm/kg; <b>Tumorigen/Carcinogen:</b> ihl-rat TCLo:11600 ug/m <sup>3</sup> /18H/2Y-1

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Component Name	CAS	Data
Talc (0% TO 6%)	14807-96-6	<b>Irritation:</b> skn-hmn 300 ug/3D-I MLD; <b>Tumorigen/Carcinogen:</b> ihl-rat TC :11 mg/m3/1Y-1
Zinc oxide (0.5% TO 2.5%)	1314-13-2	<b>Irritation:</b> eye-rbt 500 mg/24H MLD; skn-rbt 500 mg/24H MLD; <b>Reproductive:</b> orl-rat TDLo:6846 mg/kg (1-22D preg)
MBTS (0% TO 1%)	120-78-5	<b>Acute Toxicity:</b> 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	<b>Acute Toxicity:</b> orl-rat LD50:4 gm/kg; ihl-rat LC50:2485 mg/m3/4H
TMDS (0% TO 1%)	137-26-8	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 560 mg/kg; ihl-rat LC50:500 mg/m3/4H; <b>Irritation:</b> eye-rbt 100 mg/24H MOD; <b>Reproductive:</b> orl-rat TDLo:300 mg/kg (15D preg); <b>Tumorigen/Carcinogen:</b> orl-rat TDLo:108 mg/kg/1Y-C

GHS Properties	Classification
<b>Acute toxicity</b>	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
<b>Aspiration Hazard</b>	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
<b>Carcinogenicity</b>	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
<b>Germ Cell Mutagenicity</b>	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
<b>Skin corrosion/Irritation</b>	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
<b>Skin sensitization</b>	EU/CLP • Skin Sensitizer 1 OSHA HCS 2012 • Skin Sensitizer 1A
<b>STOT-RE</b>	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
<b>STOT-SE</b>	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
<b>Toxicity for Reproduction</b>	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
<b>Respiratory sensitization</b>	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
<b>Serious eye damage/Irritation</b>	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 normal conditions of use, no health effects are expected.
- **Chronic (Delayed)**

### Eye

- **Acute (Immediate)** Direct contact with tape may cause mechanical irritation.
- **Chronic (Delayed)** 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

LC = Lethal Concentration  
LD = Lethal Dose  
MLD = Mild  
MOD = Moderate  
SEV = Severe  
TC = Toxic Concentration  
TD = Toxic Dose

## \* 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 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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## \* 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 Relevant.

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

**Canada**

**Labor**

**Canada - WHMIS - Classifications of Substances**

• <i>Phenol, 4-methyl</i>	68610-51-5	Not Listed
• <i>Isobutylene-Isoprene polymer</i>	9010-85-9	Not Listed
• <i>Isoprene</i>	78-79-5	Not Listed
• <i>1-Propene, 2-methyl-</i>	115-11-7	Not Listed
• <i>MBTS</i>	120-78-5	Not Listed
• <i>Ethylene propylene diene rubber</i>	25038-36-2	Not Listed
• <i>TMDS</i>	137-26-8	Not Listed
• <i>Formaldehyde</i>	50-00-0	Not Listed
• <i>Calcium oxide</i>	1305-78-8	A, B1, D1A, D2A, D2B; B3, 1A, D2A, D2B, E (regulated under Formol)
• <i>Carbon Black</i>	1333-86-4	E  D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Carbon Black, non-respirable on Health Canada's WHMIS Division website.) D2A Uncontrolled product according to WHMIS classification criteria

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<i>Talc</i>	14807-96-6	<i>D2A</i>
<i>Zinc oxide</i>	1314-13-2	<i>Uncontrolled product according to WHMIS classification criteria</i>
<i>Zinc oxide as Zinc compounds</i>		<i>Not Listed</i>
<i>Polybutene</i>	9003-29-6	<i>Uncontrolled product according to WHMIS classification criteria</i>
<i>Sulfur</i>	7704-34-9	<i>B4</i>
<i>ENB</i>	16219-75-3	<i>B2, D1A, D2B</i>
<i>p-Benzoquinone, 2,3,5,6-tetrachloro-</i>	118-75-2	<i>Not Listed</i>
<i>Phenol, p-(1,1,3,3-tetramethylbutyl)-</i>	140-66-9	<i>Uncontrolled product according to WHMIS classification criteria</i>
<i>Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic</i>	64742-52-5	<i>Not Listed</i>

## Canada

### WHMIS - Ingredient Disclosure List

<i>Phenol, 4-methyl</i>	68610-51-5	<i>Not Listed</i>
<i>Isobutylene-Isoprene polymer</i>	9010-85-9	<i>Not Listed</i>
<i>Isoprene</i>	78-79-5	<i>1 %</i>
<i>1-Propene, 2-methyl-</i>	115-11-7	<i>Not Listed</i>
<i>MBTS</i>	120-78-5	<i>1 %</i>
<i>Ethylene propylene diene rubber</i>	25038-36-2	<i>Not Listed</i>
<i>TMDS</i>	137-26-8	<i>1 %</i>
<i>Formaldehyde</i>	50-00-0	<i>0.1 %</i>
<i>Calcium oxide</i>	1305-78-8	<i>1 %</i>
<i>Carbon Black</i>	1333-86-4	<i>1 %</i>
<i>Talc</i>	14807-96-6	<i>Not Listed</i>
<i>Zinc oxide</i>	1314-13-2	<i>1 %</i>
<i>Zinc oxide as Zinc compounds</i>		<i>Not Listed</i>
<i>Polybutene</i>	9003-29-6	<i>Not Listed</i>
<i>Sulfur</i>	7704-34-9	<i>Not Listed</i>
<i>ENB</i>	16219-75-3	<i>1 %</i>
<i>p-Benzoquinone, 2,3,5,6-tetrachloro-</i>	118-75-2	<i>Not Listed</i>
<i>Phenol, p-(1,1,3,3-tetramethylbutyl)-</i>	140-66-9	<i>Not Listed</i>
<i>Mineral oil, petroleum distillates, hydrotreated (mild) heavy naphthenic</i>	64742-52-5	<i>Not Listed</i>

## Environment

### Canada - CEPA - Priority Substances List

<i>Phenol, 4-methyl</i>	68610-51-5	<i>Not Listed</i>
<i>Isobutylene-Isoprene polymer</i>	9010-85-9	<i>Not Listed</i>
<i>Isoprene</i>	78-79-5	<i>Not Listed</i>
<i>1-Propene, 2-methyl-</i>	115-11-7	<i>Not Listed</i>
<i>MBTS</i>	120-78-5	<i>Not Listed</i>
<i>Ethylene propylene diene rubber</i>	25038-36-2	<i>Not Listed</i>
<i>TMDS</i>	137-26-8	<i>Not Listed</i>
<i>Formaldehyde</i>	50-00-0	<b>Priority Substance List 2 (substance considered toxic)</b>

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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

## 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
• 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. - 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

## Environment

### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• 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

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 (MAD): Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL): Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female: Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male: Not Listed

## 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:** Formate 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