

**\* Section 1. Identification****Product identifier**

- **Trade name:** Royal Edge Water Cut-Off Mastic
- **Product Code:** WCO
- **Relevant identified uses of the substance or mixture:** Construction: Sealing Compound

**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 EU Directive 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** Flammable Liquids 2 -H225  
Skin Irritation 2 - H315  
Hazardous to the aquatic environment Chronic 2-411
- **DSD/DPD** Flammable  
Dangerous to the Environment (N)  
R11, R51/53

**Label Elements**

- **CLP**

**DANGER****Hazard statements**

H225 - Highly flammable liquid and vapour  
H441 - Toxic to aquatic life with long lasting effects

**Precautionary statements**

- **Prevention**  
P210 - Keep away from heat, sparks, open flames and/or hot surfaces. Do not smoke.  
P264 - Wash thoroughly after handling.  
P273 - Avoid release into environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P243 - Take precautionary measures against static discharge.  
P241 - Use explosion proof electrical/ventilation/lighting/equipment.  
P235 - Keep container tightly closed and in cool area.
- **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.  
P391 - Collect spillage
- **Storage/Disposal**  
P403+P235 Store in a well-ventilated area. Keep product cool.  
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 2/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 1)

- **DSD/DPD**



- **Risk phrases**

R11 - Highly Flammable.

R51/53 - Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

## 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.

## UN GHS

According to Third Revised Edition

Classification of the substance or mixture

- **UN GHS** Flammable Liquids 2 - H225  
Skin Irritation 2 - H315  
Eye Irritation 2 - H319

## Label elements

- **UN GHS**

**DANGER**



## Hazard statements

Highly flammable liquid and vapour - H225  
Causes skin irritation - H315  
Causes serious eye irritation - H319

## Precautionary statements

- **Prevention**

P210 - Keep away from heat, sparks, open flames and/or hot surfaces. Do not smoke.  
P233 - Keep container tightly closed.  
P235 - Keep product cool.  
P240 - Ground and/or bond container and receiving equipment.  
P241 - Use explosion-proof electrical, ventilation and/or lighting equipment.  
P243 - Take precautionary measures against static discharge.  
P264 - Wash thoroughly after handling.  
P280 - Wear protective gloves and eye/face protection.
- **Response**

P370+P378 - In case of fire: Use appropriate media for extinction.  
P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P362 - Take off contaminated clothing and wash before re-use.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P302+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.  
P337+P212 - If eye irritation persists: Get medical advice/attention.
- **Storage/Disposal**

P403+P235 - Store in a well-ventilated place. Keep cool.  
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Other hazards

- **UN GHS** According to the Globally Harmonized System for Classification and Labeling (GHS) the product is considered hazardous.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 3/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 2)

## United States (US)

### According to OSHA 29 CFR 1910.1200 HCS

- **OSHA HCS 2012** Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

### Classification of the substance or mixture

- **OSHA HCS 1994** Flammable Liquid  
Flammable /Combustibl Class IB  
Irritant  
Target Organ Effect - Central Nervous System (CNS)

### Label elements

- **OSHA HCS 1994** Not required.

### Other Hazards

**OSHA HCS 1994** Under United States Regulations (29 cgr 1910.1200 -Hazard Communication Standard), this product is considered hazardous.

## Canada

- According to WHMIS

### Classification of the substance or mixture

**WHMIS** Flammable Liquids - B2  
Other Toxic Effects - D2A  
Other Toxic Effects - D2B

### Label elements

**WHMIS** Flammable Liquids - B2  
Other Toxic Effects - D2A  
Other Toxic Effects - D2B



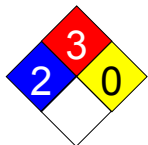
### Other hazards

**WHMIS**

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

### Other information

**NFPA**



Health = 2  
Fire = 3  
Reactivity = 0

See Section 12 for Ecological Information.

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

### Substances

Material does not meet the criteria of a substance accord to United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS)  
Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 4/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

## Mixtures

(Contd. of page 3)

<b>Hazardous Components</b>					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Heptane	CAS: 142-82-5 EC Number: 205-563-8 UN: UN1206	14%	Inhalation-Rat LC50 103 g/m 4 Hours	UN GHS: Eye Irrit. 2, Skin Irriti. 2, STOT SE3, Aquatic Acute 3 EU DSD/DPD: Annex I: F; R11Xi, R38 N; R50-53 Xn1 R65 R67 EU CLP: Annex VI-Flam. Liq. 2; Asp. Tox 1; Skin Irrit. 2, STOT SE 3 ; Aquatic Acute 1; Aquatic Acute 1	NDA
Arien	CAS:64742-16-1 EINECS: 265-116-8	-10%	NDA	EU DSD/DPD: Data Lacking UN GHS: Data Lacking EU CLP: Data Lacking	NDA
Ethylene	CAS:74-85-1 EC Number: 200 815-3 UN: UN 1038 , UN1962	-4%	NDA	EU DSD/DPD: Annex I: F+; R12 R67 EU CLP: Annex VI Flam. Gas1, Press Gas, STOT SE 3 UN GHS: Eye Irrit. 2	NDA
Kaolin	CAS:1332-58-7	<3%	NDA	UN GHS: STOT RE 2 EU DSD/DPD: Self Classified - Xn; R48/20 EU CLP: Self Classified - STOT RE 2	NDA
Limestone	CAS: 1317-65-3 EC Number: 215-279-6	<3%	NDA	UN GHS: NDA EU DSD/DPD: NDA EU CLP: NDA	NDA
Propene	CAS: 115-7-1 EC Number: 204-062-1	<3%	NDA	UN GHS: Flam. Gas 1, Press, Gas EU DSD/DPD: Annex I - F+; R12 EU CLP: Annex VI - Flam. Gas 1, Press. Gas	NDA
Methane, 2,2'-bis (6-t-butyl-p-cresyl)-	CAS: 119-47-1 EC Number: 204-327-1	<0.1%	Ingestion/Oral-Rat LD50 4880 mg/kg	UN GHS: NDA EU DSD/DPD: NDA EU CLP: NDA	NDA
Carbon Black	CAS: 1333-86-4 EC Number: 215-609-9	<0.03%	Ingestion/Oral-Rat LD50 >15400 mg/kg Skin-Rabbit LD50 >3 g/kg	UN GHS: Flam. Gas 1, Press, Gas EU DSD/DPD: Annex I - F+; R12 EU CLP: Annex VI - Flam. Gas 1, Press. Gas	NDA

### \* 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. Treat victim symptomatically and supportively.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 5/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 4)

## \* Section 5. Fire-Fighting Measures

### Extinguishing media

- **Suitable Extinguishing Media:** SMALL FIRES: Water spray, alcohol-resistant foam, dry chemical, (CO<sub>2</sub>)  
LARGE FIRES: Water spray, fog or alcohol-resistant foam.
- **Unsuitable Extinguishing Media:** Water may be ineffective, but should be used to keep fire exposed containers cool.

### Special hazards arising from the substance or mixture

- **Unusual Fire and Explosion Hazards:** HIGHLY FLAMMABLE: Will easily be ignited by heat, sparks, or flames. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapor explosion hazard indoors, outdoors, and in sewers or enclosed areas. Most vapors are heavier than air and may spread (flow) along the ground and collect in low or confined areas. Vapors may travel to an ignition source and flash back to source. Run-off may cause a fire or explosion in sewers.
- **Hazardous Combustion Products:** Carbon dioxide, carbon monoxide, aldehydes, acrid smoke and irritating fumes.

### 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. It is not effective in spill situations where direct contact with the substance is possible. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Run-off from fire control may cause pollution. LARGE FIRES: Dike fire control water for later disposal.

## \* Section 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

- **Personal Precautions** Do not touch damaged container or spilled material unless wearing appropriate protective clothing. Stay upwind. Ventilate enclosed areas.
- **Emergency Procedures** No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

**Environmental precautions** Avoid run-off to waterways and sewers.

### Methods and material for containment and cleaning up

- **Containment/Clean-up Measures:** Stop and contain leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to proper containers. Use clean non-sparking tools to collect absorbed material. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors.

### 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

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 6/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 5)

**• Handling**

Keep away from heat, sparks, and flame. **DO NOT SMOKE.**  
 Keep containers closed.  
 Vapors of this material are heavier than air and will collect in low areas. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar actions near containers.  
 Static electricity may accumulate and create a fire or explosive hazard. Take precautionary measures against static charges.  
 Bond and ground all transfer containers and equipment.  
 Use only with adequate ventilation. Do not breathe (dust, vapor or spray mist). Ground all fixed equipment.

**Conditions for safe storage, including any incompatibilities**

**• Storage**

Store in a cool, dry well ventilated area.  
 Keep away from all sources of ignition.  
 Do Not Smoke. Keep away from incompatible materials.  
 Keep containers closed when not in use.

**• Specific end uses**

Refer to Section 1.2 - Relevant identified uses.

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

**Exposure Limits/Guidelines**

	Result	ACGIH	Canada Alberta	Canada British Columbia	Canada Manitoba	Canada New Brunswick
Carbon Black (1333-86-4)	TWAs	3.5 mg/m <sup>3</sup> TWA	3.5 mg/m <sup>3</sup> TWA	Not established	3.5 mg/m <sup>3</sup> TWA	3.5 mg/m <sup>3</sup> TWA
	STELs				Not established	Not established
Kaolin (1332-58-7)	TWAs	2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)	2 mg/m <sup>3</sup> TWA (respirable)	Not established	2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)	2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)
Limestone (1317-65-3)	TWAs	Not established	10 mg/m <sup>3</sup> TWA	Not established	2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)	2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)
	STELs	Not established	Not established	20 mg/m <sup>3</sup> STEL	Not established	10 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)
Propene (115-07-1)	TWAs	500 ppm TWA	500 ppm TWA; 860 mg/m <sup>3</sup> TWA	Not established	500 ppm TWA	Not established
Ethylene (74-85-1)	TWAs	200ppm TWA	200 ppm TWA; 229 mg/m <sup>3</sup> TWA	Not established	200 ppm TWA	200 ppm TWA
Heptane (142-82-5)	STELs	500 ppm STEL	500 ppm STEL 2050 mg/m <sup>3</sup> STEL	500 ppm STEL	500 ppm STEL	500 ppm STEL; 2050 mg/m <sup>3</sup> STEL
	TWAs	400 ppm TWA	400 ppm TWA; 1640 mg/m <sup>3</sup> TWA	Not established	400 ppm TWA	400 ppm TWA; 1640 mg/m <sup>3</sup> TWA

**Exposure Limits/Guidelines Continued**

	Result	Canada Northwest Territories	Canada Nova Scotia	Canada Ontario	Canada Quebec	Canada Saskatchewan
--	--------	------------------------------	--------------------	----------------	---------------	---------------------

(Contd. on page 7)



# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 7/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 6)

Carbon Black (1333-86-4)	TWAs	3.5 mg/m3 TWA	3.5 mg/m3 TWA	Not established	3.5 mg/m3 TWA	3.5 mg/m3 TWA
	STELs				Not established	Not established
Kaolin (1332-58-7)	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)	2 mg/m3 TWA (respirable)	Not established	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)	2 g/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)
	STELs	Not established	10 mg/m3 TWA	Not established	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWA	Not established	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)
	STELs	Not established	Not established	20 mg/m3 STEL	Not established	10 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)
Propene (115-07-1)	TWAs	500 ppm TWA	500 ppm TWA; 860 mg/m3 TWA	Not established	500 ppm TWA	Not established
Ethylene (74-85-1)	TWAs	200ppm TWA	200 ppm TWA; 229 mg/m3 TWA	Not established	200 ppm TWA	200 ppm TWA
Heptane (142-82-5)	STELs	500 ppm STEL	500 ppm STEL 2050 mg/m3 STEL	500 ppm STEL	500 ppm STEL	500 ppm STEL; 2050 mg/m3 STEL
	TWAs	400 ppm TWA	400 ppm TWA; 1640 mg/m3 TWA	Not established	400 ppm TWA	400 ppm TWA; 1640 mg/m3 TWA
<b>Exposure Limits/Guidelines Continued</b>						
	<b>Result</b>	<b>Canada Northwest Territories</b>	<b>Canada Nova Scotia</b>	<b>Canada Ontario</b>	<b>Canada Quebec</b>	<b>Canada Saskatchewan</b>
Carbon Black (1333-86-4)	TWAs	3.5 mg/m3 TWA	3.5 mg/m3 TWA	3.5 mg/m3 TWAEV	3.5 mg/m3 TWAEV	3.5 mg/m3 TWA
	STELs	7 mg/m3 STEL	Not established	Not established	Not established	Not established
Kaolin (1332-58-7)	TWAs	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	2 mg/m3 TWAEV (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)	5mg/m3 TWAEV (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)	2mg/m3 (respirable fraction)
	STELs	Not established	Not established	Not established	10mg/m3 TWAEV (particulate matter containing no asbestos and <1% crystalline silica, inspirable dust)	10 mg/m3 TWA
Propene (115-07-1)	TWAs	Not established	500 PPM TWA	500 PPM TWAEV	Not established	Not established
Ethylene (74-85-1)	TWAs	Not established	200 ppm TWA	200 ppm TWAEV	Not established	200 ppm TWA
Heptane (142-82-5)	STELs	500 ppm STEL; 2049 mg/m3 STEL	500 ppm STEL	500 ppm STEV; 2045 mg/m3 STEV	500 ppm STEV; 2050 mg/m3 STEV	Not established
	TWAs	400 ppm TWA; 1640 mg/m3 TWA	400 ppm TWA	400 ppm TWAEV; 1635 mg/m3 TWAEV	400 ppm TWAEV; 1640 mg/m3 TWAEV	400 ppmTWA
(Contd. on page 8)						

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 8/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 7)

Propene (115-07-1)	TWAs	Not established	500 PPM TWA	500 PPM TWAEV	Not established	Not established
Ethylene (74-85-1)	TWAs	Not established	200 ppm TWA	200 ppm TWAEV	Not established	200 ppm TWA
Heptane (142-82-5)	STELs	500 ppm STEL; 2049 mg/m3 STEL	500 ppm STEL	500 ppm STEV; 2045 mg/m3 STEV	500 ppm STEV; 2050 mg/m3 STEV	Not established
	TWAs	400 ppm TWA; 1640 mg/m3 TWA	400 ppm TWA	400 ppm TWAEV; 1635 mg/m3 TWAEV	400 ppm TWAEV; 1640 mg/m3 TWAEV	400 ppm TWA

### Exposure Limits/Guidelines Continued

	Result	NIOSH	Result	OSHA
Carbon Black (1333-86-4)	TWAs	3.5 mg/m3 TWA; 0.1 mg/m3 TWA (carbon black in presence of polycyclic aromatic hydrocarbons, as PAH)	Carbon Black (1333-86-4)	TWAs 3.5 mg/m3 TWA
Kaolin (1332-58-7)	TWAs	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	Heptane (142-82-5)	TWAs 500 ppm TWA; 2000 mg/m3 TWA
Limestone (1317-65-3)	TWAs	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	Kaolin (1332-58-7)	TWAs 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Propene (115-07-1)	TWAs	Not established	Limestone (1317-65-3)	TWAs 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Heptane (142-82-5)	TWAs	85 ppm TWA; 350 mg/m3 TWA		
	Ceilings	440 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)		
	MAKs	Not established		

### Exposure controls

- **Engineering Measures/Controls** Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
- **Personal Protective Equipment**



Protective gloves

- **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

(Contd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 9/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 8)

## \* Section 9. Physical and Chemical Properties

### Information on Physical and Chemical Properties

Material Description			
Physical Form	Paste	Appearance/Description	Grey paste with mild odor
Color	Grey	Odor	Mild solvent odor
Odor Threshold	No data available	Aerosol Type	No data available
Taste	No available data	Particulate type	No data available
Particulate size	No available data	Physical and Chemical Properties	No data available
General Properties			
Boiling Point	200 F 93.3333 C	Melting Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	1.33 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	No data available	Explosive Properties	No data available
Oxidizing Properties	No data available	Density	No data available
Volatility			
Vapor Pressure	45 mmHg (torr)	Vapor Density	3.4 Air=1
Evaporation Rate	4.5 n-Butyl Acetate=1	VOC (Wt.)	No data available
VOC (Vol.)	No data available	Volatiles (Wt.)	No data available
Volatiles (Vol.)	25.5%		
Flammability			
Flash Point	14 F(-10 C) TCC (Tagliabue Closed Cup)	Self-Accelerating Decomposition Temperature (SADT)	No data available
LEL	1 %	Autoignition	Not relevant
Flammability (solid, gas)	No data available	UEL	7%
Flame Extension	No data available	Heat of Combustion	No data available
Flame Height	No data available	Burning Time	No data available
Flame Duration	No data available	Ignition Distance	No data available
Environmental			
Half Life	1 %	Octanol/Water partition coefficient	Not relevant
Coefficient of water/oil Distribution	No data available	Bioaccumulation Factor	No data available
Chemical Oxygen Demand	No data available	Biochemical Oxygen Demand BOD/BOD5	No data available
Degradation	No data available		
Bioconcentration Factor	No data available	Persistence	No data available

### 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**

(Contd. on page 10)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 10/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 9)

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

- **Conditions to avoid**

Avoid flames, sparks, and other sources of ignition. Keep away from excess heat and other incompatible materials.

- **Incompatible materials**

Acids, alkalies, strong oxidizers

- **Hazardous decomposition products**

Hazardous decomposition will not occur.

## \* Section 11. Toxicological Information

Component Name	CAS	Data
Heptane (14%)	142-82-5	Acute Toxicity: ihi-rat LC50: 103 gm/m3/4Hl ihl-rat TCLo: 400 ppm/6H/28D-I
Ethylene(<4%)	74-85-1	Acute Toxicity: ihl-rat TLCo: 1000ppm/2H
Kaolin (>3%)	1332-58-7	Acute Toxicity: ihl-rat TCLo: 300 mg/m3/12W-I Reproductive: orl-rat TCLo: 370 gm/kg (37 pre/1-22D preg)
Limestone (>3%)	1317-65-3	Acute Toxicity: ihl-rat TCLo: 84 mg/m3/4H/40W-I
Propene (>3%)	115-07-1	Acute Toxicity: ihl-rat GLCo: 5000 ppm/6H/2Y-I Mutagen: slt-rat-ihl 200 ppm/4W/6H Tumorigen/Carcinogen: ihl-rat TCLo: 154500 mg/kg/103W-C
Methane, 2,2"-bis(6-t-butyl-p-cresyl)- (<0.1%)	119-47-1	Acute Toxicity: orl-rat TDLo: 420 mg/kg/14D-I Irritation: eye-rbt 100 mg/24H MOD Reproductive: orl-rat TDLo: 2946.3 mg/kg (61D male)
Carbon Black (<0.03%)	1333-86-4	Acute Toxicity: orl-rat LD50: >15400 mg/kg; ihl-rat TCLo: 50 mg/m3/6H/90D-I; skn-rbt LD50: >3gm/kg Tumorigen/Carcinogen: ihl-rat TCLo: 11600 ug/m3/13H/2Y-I

GHS Properties	Classification
Acute toxicity	EU/CLP • Data Lacking UN/GHS • Data Lacking
Aspiration Hazard	EU/CLP • Data Lacking UN GHS • Data Lacking
Carcinogenicity	EU/CLP • Classification criteria not met UN GSH • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Data Lacking UN GHS • Data Lacking
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 UN GHS • Skin Irritation 2
Skin sensitization	EU/CLP • Data Lacking UN GHS • Data Lacking
STOT-RE	EU/CLP • Classification criteria not met UN GHS • Classification criteria not met
STOT-SE	EU/CLP • Classification criteria not met UN GHS • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Data Lacking UN GHS • Data Lacking

(Contd. on page 11)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 11/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 10)

<b>Respiratory sensitization</b>	EU/CLP • Data Lacking UN GHS • Data Lacking
<b>Serious eye damage/Irritation</b>	EU/CLP • Classification criteria not met UN GHS • Eye Irritation 2

- **Target Organs** Central Nervous System (CNS)
- **Routes of entry/exposure** Inhalation, Skin, Eye, Ingestion

## Potential Health Effects

### Inhalation

- **Acute (Immediate)** May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death. May cause respiratory irritation.
- **Chronic (Delayed)** Under normal conditions of use, no health effects are expected.

### Skin

- **Acute (Immediate)** Causes skin irritation. May cause an allergic skin reaction.
- **Chronic (Delayed)** Repeated or prolonged skin contact may cause dermatitis, and drying of the skin.

### Eye

- **Acute (Immediate)** Causes serious eye irritation.
- **Chronic (Delayed)** No data available.

### Ingestion

- **Acute (Immediate)** Under normal conditions of use, no health effects are expected.
- **Chronic (Delayed)** No data available.

### 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	IARC
<b>Carbon Black</b>	1333-86-4	Group 2B-Possible Carcinogen

#### 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

Water Cut-Off Mastic					
Dosage	Species	Duration	Results	Exposure Conditions	Comments
= 50 mg/L	Water Flea: Daphnia Magna	48 Hour(s)	EC50	NDA	Heptane

### Persistence and degradability

No further material data available.

(Contd. on page 12)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 12/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 11)

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

### Additional ecological information

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

### Results of PBT and vPvB assessment

No PBT and vPvB assessment has been conducted by the manufacturer.

### 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.

## \* Section 14. Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN 1133	Not Regulated	NDA	NDA	NDA
TDG	UN 1133	Not Regulated	NDA	NDA	NDA
IMO/IMDG	UN 1133	Not Regulated	NDA	NDA	NDA
IATA/ICAO	UN 1133	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.

State Right To Know				
Component	CAS	MA	NJ	PA
Polybutene	9003-29-6	No	No	No
Heptane	142-82-5	Yes	Yes	Yes
Arien	64742-16-1	No	No	No
Kaolin	1332-58-7	Yes	Yes	Yes
Limestone	1317-65-3	Yes	Yes	Yes
Ethylene	74-85-1	Yes	Yes	Yes

(Contd. on page 13)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 13/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 12)

<b>State Right To Know</b>						
<b>Component</b>	<b>CAS</b>	<b>MA</b>	<b>NJ</b>	<b>PA</b>		
<i>Propene</i>	115-11-7	Yes	Yes	Yes		
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	16219-75-3	No	No	No		
<i>Carbon Black</i>	1333-86-4	Yes	Yes	Yes		
<b>Inventory</b>						
<b>Component</b>	<b>CAS</b>	<b>Canada DSL</b>	<b>Canada NDSL</b>	<b>TSCA</b>	<b>EU EINECS</b>	<b>EU ELNICS</b>
<i>Polybutene</i>	9003-29-6	Yes	No	Yes	No	Yes
<i>Heptane</i>	142-82-5	Yes	No	Yes	Yes	No
<i>Arien</i>	64742-16-1	Yes	No	Yes	Yes	No
<i>Kaolin</i>	1332-58-7	Yes	No	Yes	Yes	No
<i>Limestone</i>	1317-65-3	No	Yes	Yes	Yes	No
<i>Ethylene</i>	74-85-1	No	No	Yes	Yes	No
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	16219-75-3	Yes	No	Yes	Yes	Yes
<i>Propene</i>	115-7-1	Yes	No	Yes	Yes	No
<i>Cabon Black</i>	1333-86-4	Yes	No	Yes	Yes	Yes

### **Labor**

#### **Canada - WHMIS - Classifications of Substances**

• <i>Polybutene</i>	9003-29-6	<35%	Uncontrolled product according to WHMIS classification criteria
• <i>Heptane</i>	142-82-5	14%	D2, D2B
• <i>Arien</i>	64742-16-1	<10%	Not Listed
• <i>Kaolin</i>	1332-58-7	>3%	D2A (In certain cases, this classification does not apply For more information, consult the Substance Specific issues.
• <i>Limestone</i>	1317-65-3	<3%	D2A
• <i>Ethylene</i>	74-85-1	<4%	A,B1,D2B
• <i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	119-47-1	<0.1%	Not Listed
• <i>Propene</i>	115-7-1	<3%	A, B1, ID2B
• <i>Cabon Black</i>	1333-86-4	<0.03%	Carbon Black is non-respirable on Health Canada's WHMIS website.

### **Labor**

#### **Canada - WHMIS - Ingredient Disclosure List**

<i>Polybutene</i>	9003-29-6	<35%	Not Listed
<i>Heptane</i>	142-82-5	14%	1%
<i>Arien</i>	64742-16-1	<10%	Not Listed
<i>Kaolin</i>	1332-58-7	>3%	Not Listed
<i>Limestone</i>	1317-65-3	>3%	Not Listed
<i>Ethylene</i>	74-85-1	>4%	Not Listed
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	16219-75-3	>0.1%	1%
<i>Propene</i>	115-7-1	<3%	Not Listed
<i>Cabon Black</i>	1333-86-4	<0.03%	1%

(Contd. on page 14)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 14/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 13)

## Environment

### Canada - CEPA - Priority Substance List

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## UNITED STATES

### Labor

#### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

#### U.S. - OSHA - Specifically Regulated Chemicals

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## Environment

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

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>

(Contd. on page 15)



# Safety Data Sheet

acc. to OSHA HCS

Article Number 111

Revision Number 2

Page 15/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 14)

<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## ***U.S. - CERCLA/SARAH - Hazardous Substances and their Reprutable Quantities***

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## ***U.S. - CERCLA/SARAH - Radionuclides and their Reportable Quantities***

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## ***U.S. - CERCLA/SARAH - Section 302 Extremely Hazardous Substances EPCRA RQs***

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## ***U.S. - CERCLA/SARAH - Section 302 Extremely Hazardous Substances TPQs***

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>

(Contd. on page 16)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 16/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 15)

<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## U.S. - CERCLA/SARAH - Section 313 - Emission Reporting

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## U.S. - CERCLA/SARAH - Section 313 - PBT Chemical Listing

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## United States - California Environment

### U.S. - California - Proposition 65 - Carcinogens List

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Carcinogen, intial date 2/21/03 (airborne, unbound particles of respirable size)</i>

### U.S. - California - Proposition 65 - Developmental Toxicity

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>

(Contd. on page 17)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 17/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 16)

<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## ***U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)***

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## ***U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)***

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## ***U.S. - California - Proposition 65 - Reproductive Toxicity - Female***

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## ***U.S. - California - Proposition 65 - Reproductive Toxicity - Female***

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>

(Contd. on page 18)

# Safety Data Sheet

acc. to OSHA HCS

Revision Number 2

Article Number 111

Page 18/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 17)

<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## ***U.S. - California - Proposition 65 - Reproductive Toxicity - Female***

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## ***U.S. - California - Proposition 65 - Reproductive Toxicity - Male***

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

## ***United States - Pennsylvania***

### ***Labor***

#### ***U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List***

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
<i>Heptane</i>	<i>142-82-5</i>	<i>14%</i>	<i>Not Listed</i>
<i>Arien</i>	<i>64742-16-1</i>	<i>&lt;10%</i>	<i>Not Listed</i>
<i>Kaolin</i>	<i>1332-58-7</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Limestone</i>	<i>1317-65-3</i>	<i>&gt;3%</i>	<i>Not Listed</i>
<i>Ethylene</i>	<i>74-85-1</i>	<i>&gt;4%</i>	<i>Not Listed</i>
<i>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</i>	<i>16219-75-3</i>	<i>&gt;0.1%</i>	<i>Not Listed</i>
<i>Propene</i>	<i>115-7-1</i>	<i>&lt;3%</i>	<i>Not Listed</i>
<i>Carbon Black</i>	<i>1333-86-4</i>	<i>&lt;0.03%</i>	<i>Not Listed</i>

#### ***U.S. - Pennsylvania - RTK (Right to Know) - Special Hazard Substances***

<i>Polybutene</i>	<i>9003-29-6</i>	<i>&lt;35%</i>	<i>Not Listed</i>
-------------------	------------------	----------------	-------------------

(Contd. on page 19)

# Safety Data Sheet

acc. to OSHA HCS

Article Number 111

Revision Number 2

Page 19/20

Trade Name: Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 18)

<b>Heptane</b>	<b>142-82-5</b>	14%	Not Listed
<b>Arien</b>	<b>64742-16-1</b>	<10%	Not Listed
<b>Kaolin</b>	<b>1332-58-7</b>	>3%	Not Listed
<b>Limestone</b>	<b>1317-65-3</b>	>3%	Not Listed
<b>Ethylene</b>	<b>74-85-1</b>	>4%	Not Listed
<b>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</b>	<b>16219-75-3</b>	>0.1%	Not Listed
<b>Propene</b>	<b>115-7-1</b>	<3%	Not Listed
<b>Carbon Black</b>	<b>1333-86-4</b>	<0.03%	Not Listed

## United States - Rhode Island

### Labor

#### U.S. - Rhode Island - Hazardous Substance List

<b>Polybutene</b>	<b>9003-29-6</b>	<35%	Not Listed
<b>Heptane</b>	<b>142-82-5</b>	14%	Toxic; Flammable
<b>Arien</b>	<b>64742-16-1</b>	<10%	Not Listed
<b>Kaolin</b>	<b>1332-58-7</b>	>3%	Toxic
<b>Limestone</b>	<b>1317-65-3</b>	>3%	Toxic
<b>Ethylene</b>	<b>74-85-1</b>	>4%	Toxic; Flammable
<b>Methane, 2,2'-bis(6-t-buytl-p-cresyl)-</b>	<b>16219-75-3</b>	>0.1%	Not Listed
<b>Propene</b>	<b>115-7-1</b>	<3%	Toxic; Flammable
<b>Carbon Black</b>	<b>1333-86-4</b>	<0.03%	Toxic

## Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## \* 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
- **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)

(Contd. on page 20)

# **Safety Data Sheet**

**acc. to OSHA HCS**

Revision Number 2

Article Number 111

Page 20/20

**Trade Name:** Royal Edge Water Cut-Off Mastic

Revision Date 01/23/2015

(Contd. of page 19)

*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*