

## Safety Data Sheet

## Firestone Building Products Company

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

## 1.1 Product identifier

**Product Name** • **Water-Block Seal S-20**

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified use(s)** • Water –Block Seal (S-20) is designed to provide a seal when used in compression as required by Firestone Details

## 1.3 Details of the supplier of the safety data sheet

**Manufacturer** • Firestone Building Products Company  
200 4th Avenue S  
Nashville, TN 37201-2208  
United States

firestonemsds@bfdp.com

**Telephone (General)** • 800-428-4442

## 1.4 Emergency telephone number

**Manufacturer** • (800) 424-9300 - CHEMTREC

**Manufacturer** • (703) 527-3887 - CHEMTREC - International

## Section 2: Hazards 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)

## 2.1 Classification of the substance or mixture

**CLP** • Flammable Liquids 2 - H225  
Skin Irritation 2 - H315  
Hazardous to the aquatic environment Chronic 2 - H411

**DSD/DPD** • Flammable  
Dangerous to the Environment (N)  
R11, R51/53

## 2.2 Label Elements

CLP

**DANGER**



**Hazard statements** • H225 - Highly flammable liquid and vapour  
H411 - Toxic to aquatic life with long lasting effects  
H315 - Causes skin irritation

## Precautionary statements

- Prevention** • P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.  
 P233 - Keep container tightly closed.  
 P235 - Keep cool.  
 P240 - Ground and/or bond container and receiving equipment.  
 P241 - Use explosion-proof electrical/ventilating/lighting/equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.  
 P264 - Wash thoroughly after handling.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • P370+P378 - In case of fire: Use appropriate media for extinction.  
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
 P362 - Take off contaminated clothing and wash before reuse.  
 P321 - Specific treatment, see supplemental first aid information.  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.  
 P391 - Collect spillage.
- 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.

**DSD/DPD**

- Risk phrases** • R11 - Highly flammable.  
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.3 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 Revision 3**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Third Revised Edition

**2.1 Classification of the substance or mixture**

- UN GHS** • Flammable Liquids 2  
 Skin Irritation 2  
 Eye Irritation 2

**2.2 Label elements**

**UN GHS**

**DANGER**



- Hazard statements** • Highly flammable liquid and vapour  
 Causes skin irritation  
 Causes serious eye irritation

**Precautionary statements**

- Prevention** • Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.  
 Keep container tightly closed.  
 Keep cool.  
 Ground and/or bond container and receiving equipment.

Use explosion-proof electrical, ventilating and/or lighting equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Wash thoroughly after handling.  
 Wear protective gloves and eye/face protection , .

- Response** • In case of fire: Use appropriate media for extinction.  
 IF ON SKIN: Wash with plenty of soap and water.  
 Take off contaminated clothing and wash before reuse.  
 If skin irritation occurs: Get medical advice/attention.  
 Specific treatment (see supplemental first aid instructions on this label).  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.

- Storage/Disposal** • Store in a well-ventilated place. Keep cool.  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other hazards

### UN GHS

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

## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

#### OSHA HCS 1994

- Flammable Liquid  
 Flammable/Combustible Class IB  
 Irritant  
 Target Organ Effects - Central Nervous System (CNS)

### 2.2 Label elements

#### OSHA HCS 1994

- Not required

### 2.3 Other hazards

#### OSHA HCS 1994

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

## Canada

According to: WHMIS

### 2.1 Classification of the substance or mixture

#### WHMIS

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

### 2.2 Label elements

#### WHMIS



#### WHMIS

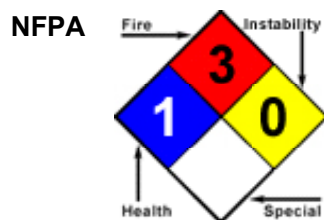
- Flammable Liquids - B2  
 Other Toxic Effects - D2A  
 Other Toxic Effects - D2B

### 2.3 Other hazards

#### WHMIS

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

## 2.4 Other information



See Section 12 for Ecological Information.

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

- Material does not meet the criteria of a substance according 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.

### 3.2 Mixtures

Composition					
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 <sup>3</sup> 4 Hour(s)	<b>EU DSD/DPD:</b> EU CLP, Annex VI, Table 3.2: F, R11; Xn, R65; Xi, R38; R67; N, R50, R53 <b>EU CLP:</b> Annex VI - Flam. Liq. 2; Asp. Tox 1; Skin Irrit. 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; <b>UN GHS Revision 3:</b> Eye Irrit. 2, Skin Irrit. 2, STOT SE 3, Aquatic Acute 3	NDA
Arien	CAS:64742-16-1 EINECS:265-116-8	< 10%	NDA	<b>EU DSD/DPD:</b> Data lacking <b>EU CLP:</b> Data lacking <b>UN GHS Revision 3:</b> Data lacking	NDA
Ethylene	CAS:74-85-1 EC Number:200-815-3 UN:UN1038, UN1962	< 4%	NDA	<b>EU DSD/DPD:</b> EU CLP, Annex VI, Table 3.2: F+, R12; R67 <b>EU CLP:</b> Annex VI Flam. Gas 1, Press Gas, STOT SE 3 <b>UN GHS Revision 3:</b> Eye Irrit. 2	NDA
Kaolin	CAS:1332-58-7	> 3%	NDA	<b>EU DSD/DPD:</b> Self Classified - Xn; R48/20 <b>EU CLP:</b> Self Classified - STOT RE 2 <b>UN GHS Revision 3:</b> STOT RE 2	NDA
Limestone	CAS:1317-65-3 EC Number:215-279-6	> 3%	NDA	<b>EU DSD/DPD:</b> NDA <b>EU CLP:</b> NDA <b>UN GHS Revision 3:</b> NDA	NDA
Propene	CAS:115-07-1 EC Number:204-062-1 UN:UN1077	< 3%	NDA	<b>EU DSD/DPD:</b> Annex I - F+; R12 <b>EU CLP:</b> Annex VI - Flam. Gas 1, Press. Gas <b>UN GHS Revision 3:</b> Flam. Gas 1, Press. Gas	NDA

Methane, 2,2'-bis (6-t-butyl-p-cresyl)-	CAS:119-47-1 EINECS:204-327-1	< 0.1%	Ingestion/Oral-Rat LD50 • 4880 mg/kg	EU DSD/DPD: Self Classified - Xi; R36 EU CLP: Self Classified - Eye Irrit. 2 UN GHS Revision 3: Acute Tox 5 (oral), Eye Irrit, 2	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	EU DSD/DPD: Self Classified - Carc. Cat 3 EU CLP: Self Classified - Carc. 2A UN GHS Revision 3: Carc. 2A	NDA

See Section 11 for Toxicological Information.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

- Move victim 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

- In case of skin contact, clean with rubbing alcohol. Wash skin with soap and water. Remove and isolate contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention.

#### Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

#### Ingestion

- Do NOT induce vomiting. Get medical attention immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

- No specific treatment required. Treat victim symptomatically and supportively.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

#### Suitable Extinguishing Media

- SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.  
LARGE FIRES: Water spray, fog or alcohol-resistant foam.

#### Unsuitable Extinguishing Media

- Water maybe ineffective, but should be used to keep fire exposed containers cool.

### 5.2 Special hazards arising from the substance or mixture

#### Unusual Fire and Explosion Hazards

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapor explosion hazard indoors, outdoors or in sewers. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

#### Hazardous Combustion Products

- Carbon dioxide, carbon monoxide, aldehydes, acrid smoke and irritating fumes.

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; 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.  
Runoff from fire control may cause pollution.  
LARGE FIRES: Dike fire-control water for later disposal.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### Personal Precautions

- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stay upwind. Ventilate enclosed areas.

#### Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep out of low areas. Keep unauthorized personnel away. Stay upwind.

### 6.2 Environmental precautions

- Avoid run off to waterways and sewers.

### 6.3 Methods and material for containment and cleaning up

#### Containment/Clean-up Measures

- Stop leak if you can do it without risk.  
Absorb or cover with dry earth, sand or other non-combustible material and transfer to 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.

### 6.4 Reference to other sections

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

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

- Keep away from heat, sparks, and flame – No Smoking. Keep containers closed. Vapors of this material are heavier than air and will collect in low or confined areas. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near container. Static electricity may accumulate and create a fire 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 fixed equipment.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

- Store in a cool, dry, well-ventilated place. Keep away from sources of ignition – No Smoking. Keep away from incompatible materials. Keep container closed when not in use.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Australia	Belgium	Canada Alberta	Canada British Columbia
Carbon Black (1333-86-4)	TWAs	3.5 mg/m <sup>3</sup> TWA	3 mg/m <sup>3</sup> TWA	3.5 mg/m <sup>3</sup> TWA	3.5 mg/m <sup>3</sup> TWA	Not established

Kaolin (1332-58-7)	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	10 mg/m3 TWA (containing no asbestos and <1% crystalline silica, inspirable dust)	2 mg/m3 TWA (alveolar fraction)	2 mg/m3 TWA (respirable)	Not established
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWA (containing no asbestos and <1% crystalline silica, inspirable dust)	10 mg/m3 TWA	10 mg/m3 TWA	Not established
	STELs	Not established	Not established	Not established	Not established	20 mg/m3 STEL
Propene (115-07-1)	TWAs	500 ppm TWA	Not established	Not established	500 ppm TWA; 860 mg/m3 TWA	Not established
Ethylene (74-85-1)	TWAs	200 ppm TWA	Not established	200 ppm TWA; 233 mg/m3 TWA	200 ppm TWA; 229 mg/m3 TWA	Not established
Heptane (142-82-5)	STELs	500 ppm STEL	500 ppm STEL; 2050 mg/m3 STEL	500 ppm STEL; 2085 mg/m3 STEL	500 ppm STEL; 2050 mg/m3 STEL	500 ppm STEL
	TWAs	400 ppm TWA	400 ppm TWA; 1640 mg/m3 TWA	400 ppm TWA; 1664 mg/m3 TWA	400 ppm TWA; 1640 mg/m3 TWA	Not established

#### Exposure Limits/Guidelines (Con't.)

	Result	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut
Carbon Black (1333-86-4)	TWAs	3.5 mg/m3 TWA	3.5 mg/m3 TWA	3.5 mg/m3 TWA	3.5 mg/m3 TWA	3.5 mg/m3 TWA
	STELs	Not established	Not established	7 mg/m3 STEL	Not established	7 mg/m3 STEL
Kaolin (1332-58-7)	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	2 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica, respirable fraction)	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)	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica)	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)	Not established	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Propene (115-07-1)	TWAs	500 ppm TWA	Not established	Not established	500 ppm TWA	Not established
Ethylene (74-85-1)	TWAs	200 ppm TWA	Not established	Not established	200 ppm TWA	Not established
Heptane (142-82-5)	STELs	500 ppm STEL	500 ppm STEL; 2050 mg/m3 STEL	500 ppm STEL; 2049 mg/m3 STEL	500 ppm STEL	500 ppm STEL; 2049 mg/m3 STEL
	TWAs	400 ppm TWA	400 ppm TWA; 1640 mg/m3 TWA	400 ppm TWA; 1640 mg/m3 TWA	400 ppm TWA	400 ppm TWA; 1640 mg/m3 TWA

#### Exposure Limits/Guidelines (Con't.)

	Result	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon	China
Carbon Black (1333-86-4)	STELs	Not established	Not established	Not established	7 mg/m3 STEL	8 mg/m3 STEL (total dust)
	TWAs	3.5 mg/m3 TWAEV	3.5 mg/m3 TWAEV	3.5 mg/m3 TWA	3.5 mg/m3 TWA	4 mg/m3 TWA (total dust)

Kaolin (1332-58-7)	TWAs	2 mg/m3 TWAEV (containing no asbestos and less than 1% crystalline silica, respirable)	5 mg/m3 TWAEV (respirable dust, containing no asbestos and less than 1% crystalline silica)	2 mg/m3 TWA (respirable fraction)	30 mppcf TWA; 10 mg/m3 TWA	Not established
	STELs	Not established	Not established	Not established	20 mg/m3 STEL	Not established
Limestone (1317-65-3)	STELs	Not established	Not established	Not established	20 mg/m3 STEL	16 mg/m3 STEL (total dust); 8 mg/m3 STEL (respirable dust)
	TWAs	Not established	10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)	10 mg/m3 TWA	30 mppcf TWA; 10 mg/m3 TWA	8 mg/m3 TWA (total dust); 4 mg/m3 TWA (respirable dust)
Propene (115-07-1)	TWAs	500 ppm TWAEV	Not established	Not established	Not established	Not established
Ethylene (74-85-1)	TWAs	200 ppm TWAEV	Not established	200 ppm TWA	Not established	Not established
Heptane (142-82-5)	STELs	500 ppm STEV; 2045 mg/m3 STEV	500 ppm STEV; 2050 mg/m3 STEV	Not established	500 ppm STEL; 2000 mg/m3 STEL	1000 mg/m3 STEL
	TWAs	400 ppm TWAEV; 1635 mg/m3 TWAEV	400 ppm TWAEV; 1640 mg/m3 TWAEV	400 ppm TWA	400 ppm TWA; 1600 mg/m3 TWA	500 mg/m3 TWA

**Exposure Limits/Guidelines (Con't.)**

	Result	Cyprus	Denmark	Germany DFG	Germany TRGS	NIOSH
Carbon Black (1333-86-4)	TWAs	Not established	3.5 mg/m3 TWA	Not established	Not established	3.5 mg/m3 TWA; 0.1 mg/m3 TWA (carbon black in presence of polycyclic aromatic hydrocarbons, as PAH)
Kaolin (1332-58-7)	TWAs	Not established	2 mg/m3 TWA (respirable)	Not established	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Limestone (1317-65-3)	TWAs	Not established	Not established	Not established	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Propene (115-07-1)	TWAs	Not established	100 ppm TWA; 172 mg/m3 TWA	Not established	Not established	Not established
Heptane (142-82-5)	TWAs	500 ppm TWA; 2085 mg/m3 TWA	200 ppm TWA; 820 mg/m3 TWA	Not established	500 ppm TWA (all isomers, exposure factor 1); 2100 mg/m3 TWA (all isomers, exposure factor 1)	85 ppm TWA; 350 mg/m3 TWA
	Ceilings	Not established	Not established	500 ppm Peak; 2100 mg/m3 Peak	Not established	440 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)
	MAKs	Not established	Not established	500 ppm MAK; 2100 mg/m3 MAK	Not established	Not established

**Exposure Limits/Guidelines (Con't.)**

	Result	OSHA
Carbon Black (1333-86-4)	TWAs	3.5 mg/m3 TWA



Kaolin (1332-58-7)	TWAs	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)
Limestone (1317-65-3)	TWAs	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)
Heptane (142-82-5)	TWAs	500 ppm TWA; 2000 mg/m <sup>3</sup> TWA

## 8.2 Exposure controls

### Engineering Measures/Controls

- This adhesive is designed to be used outdoors, in roofing applications. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal Protective Equipment

#### Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

#### Eye/Face

- Wear safety glasses.

#### Skin/Body

- Wear appropriate chemical resistant clothing. Wear appropriate gloves.

### Environmental Exposure Controls

- In case of spills, keep product clear of sewers, waterways or land areas. Dispose of waste product in accordance with national and local laws and regulations.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

NIOSH = National Institute of Occupational Safety and Health

STEV = Short Term Exposure Value

OSHA = Occupational Safety and Health Administration

TWAEV = Time-Weighted Average Exposure Value

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

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

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Gray liquid with mild odor.
Color	Gray	Odor	Mild
Taste	No data available	Particulate Type	No data available
Particulate Size	No data available	Aerosol Type	No data available
Odor Threshold	No data available	Physical and Chemical Properties	No data available
General Properties			
Boiling Point	200 °F(93.3333 °C)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	Heat of Decomposition	No data available
pH	No data available	Specific Gravity/Relative Density	= 1.33 Water=1
Density	No data available	Bulk Density	No data available
Water Solubility	Negligible	Solvent Solubility	No data available
Viscosity	No data available	Explosive Properties	No data available
Oxidizing Properties:	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 %		
<b>Flammability</b>			
Flash Point	14 °F(-10 °C) TCC (Tagliabue Closed Cup)	UEL	7 %
LEL	1 %	Autoignition	No data available
Self-Accelerating Decomposition Temperature (SADT)	No data available	Heat of Combustion ( $\Delta H_c$ )	No data available
Burning Time	No data available	Flame Height	No data available
Flame Extension	No data available	Ignition Distance	No data available
Flame Duration	No data available	Flammability (solid, gas)	No data available
<b>Environmental</b>			
Half-Life	No data available	Octanol/Water Partition coefficient	No data available
Coefficient of water/oil distribution	No data available	Bioaccumulation Factor	No data available
Bioconcentration Factor	No data available	Biochemical Oxygen Demand BOD/BOD5	No data available
Chemical Oxygen Demand	No data available	Persistence	No data available
Degradation	No data available		

## 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Avoid flames, sparks, or other sources of ignition. Excess heat. Incompatible materials.

### 10.5 Incompatible materials

- Acids, alkalis, strong oxidizers.

### 10.6 Hazardous decomposition products

- Hazardous decomposition will not occur.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Components		
Heptane (14%)	142-82-5	<b>Acute Toxicity:</b> Inhalation-Rat LC50 • 103 g/m <sup>3</sup> 4 Hour(s); <b>Multi-dose Toxicity:</b> Inhalation-Rat TCLo • 4000 ppm 6 Hour(s) 28 Day(s)-Intermittent; <i>Brain and Coverings:Recordings from specific areas of CNS; Sense Organs and Special Senses:Ear:Changes in cochlear structure or function; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain</i>
Ethylene (< 4%)	74-85-1	<b>Acute Toxicity:</b> Inhalation-Rat TCLo • 1000 ppm 2 Hour(s); <i>Liver:Other changes; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Other oxidoreductases</i>

Kaolin (> 3%)	1332-58-7	<b>Multi-dose Toxicity:</b> Inhalation-Rat TClO • 300 mg/m <sup>3</sup> 12 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Other changes;</i> <b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 370 g/kg (37D pre/1-22D preg); <i>Reproductive Effects:Maternal Effects:Other effects; Reproductive Effects:Effects on Newborn:Other neonatal measures or effects.</i>
Limestone (> 3%)	1317-65-3	<b>Multi-dose Toxicity:</b> Inhalation-Rat TClO • 84 mg/m <sup>3</sup> 4 Hour(s) 40 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Fibrosis (interstitial); Liver:Other changes; Kidney, Ureter, and Bladder:Other changes</i>
Propene (< 3%)	115-07-1	<b>Multi-dose Toxicity:</b> Inhalation-Rat TClO • 5000 ppm 6 Hour(s) 2 Year(s)-Intermittent; <i>Sense Organs and Special Senses:Olfaction:Other changes;</i> <b>Mutagen:</b> Inhalation-Rat • 200 ppm 4 Week(s) 6 Hour(s); <b>Tumorigen / Carcinogen:</b> Inhalation-Rat TClO • 154500 mg/kg 103 Week(s)-Continuous; <i>Tumorigenic:Neoplastic by RTECS criteria; Sense Organs and Special Senses:Olfaction:Tumors</i>
Methane, 2,2'-bis(6-t-butyl-p-cresyl)- (< 0.1%)	119-47-1	<b>Irritation:</b> Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; <b>Multi-dose Toxicity:</b> Ingestion/Oral-Rat TDLo • 420 mg/kg 14 Day(s)-Intermittent; <i>Cardiac:Other changes; Biochemical:Metabolism (intermediary):Lipids, including transport;</i> <b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 2946.3 mg/kg (61D male); <i>Reproductive Effects:Paternal Effects:Spermatogenesis; Reproductive Effects:Paternal Effects:Testes, epididymis, sperm duct</i>
Carbon Black (< 0.03%)	1333-86-4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >15400 mg/kg; <i>Behavioral:Somnolence (general depressed activity); Skin-Rabbit LD50 • &gt;3 g/kg;</i> <b>Multi-dose Toxicity:</b> Inhalation-Rat TClO • 50 mg/m <sup>3</sup> 6 Hour(s) 90 Day(s)-Intermittent; <i>Lungs, Thorax, or Respiration:Other changes;</i> <b>Tumorigen / Carcinogen:</b> Inhalation-Rat TClO • 11600 µg/m <sup>3</sup> 18 Hour(s) 2 Year(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors</i>

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking UN GHS 3 • Data lacking
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 UN GHS 3 • Skin Irritation 2
Serious eye damage/Irritation	EU/CLP • Classification criteria not met UN GHS 3 • Eye Irritation 2
Skin sensitization	EU/CLP • Data lacking UN GHS 3 • Data lacking
Respiratory sensitization	EU/CLP • Data lacking UN GHS 3 • Data lacking
Aspiration Hazard	EU/CLP • Data lacking UN GHS 3 • Data lacking
Carcinogenicity	EU/CLP • Classification criteria not met UN GHS 3 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Data lacking UN GHS 3 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking UN GHS 3 • Data lacking
STOT-SE	EU/CLP • Classification criteria not met UN GHS 3 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met UN GHS 3 • Classification criteria not met

**Target Organs** • Central Nervous System (CNS)

**Route(s) 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)**
  - No data available.

### Skin

- Acute (Immediate)**
  - Causes skin irritation.
- Chronic (Delayed)**
  - Repeated or prolonged skin contact may cause irritation, 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

- This product contains carbon black below percentages that would require a carcinogen classification. Additionally according to IARC "No significant exposure to carbon black is thought to occur during the use of products in which carbon black is bound to other materials, such as rubber, printing ink or paint."

Carcinogenic Effects		
	CAS	IARC
Carbon Black	1333-86-4	Group 2B-Possible Carcinogen

#### Key to abbreviations

- LC = Lethal Concentration
- LD = Lethal Dose
- MOD = Moderate
- TC = Toxic Concentration

## Section 12 - Ecological Information

### 12.1 Toxicity

	CAS	
Water-Block Seal S-20	NDA	<b>Aquatic Toxicity-Crustacea:</b> 48 Hour(s) EC50 Water Flea <i>Daphnia Magna</i> 50 mg/L Comments: Heptane

### 12.2 Persistence and degradability

- Material data lacking.

### 12.3 Bioaccumulative potential

- Material data lacking.

### 12.4 Mobility in Soil

- Material data lacking.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Other adverse effects

#### Potential Environmental Effects

- According to Annex VI to Regulation (EC) No 1272/2008 Table 3.1 and Table 3.2 the heptane component of this material may cause adverse effects to the environment.

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

#### Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

#### Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1133	Adhesives, containing a flammable liquid	3	II	NDA
TDG	UN1133	ADHESIVES containing flammable liquid	3	II	Potential Marine Pollutant
IMO/IMDG	UN1133	ADHESIVES containing flammable liquid	3	II	NDA
IATA/ICAO	UN1133	Adhesives containing flammable liquid	3	II	NDA

#### 14.6 Special precautions for user

- None known.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- This product is provided only in non-bulk containers.

## Section 15 - Regulatory Information

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

State Right To Know				
Component	CAS	MA	NJ	PA
Arien	64742-16-1	No	No	No
Carbon Black	1333-86-4	Yes	Yes	Yes
Ethylene	74-85-1	Yes	Yes	Yes
Heptane	142-82-5	Yes	Yes	Yes
Kaolin	1332-58-7	Yes	Yes	Yes
Limestone	1317-65-3	Yes	Yes	Yes
Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	No	No	No
Polybutene	9003-29-6	No	No	No
Propene	115-07-1	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Arien	64742-16-1	Yes	No	Yes	Yes	No
Carbon Black	1333-86-4	Yes	No	Yes	Yes	Yes

Ethylene	74-85-1	Yes	No	Yes	Yes	No
Heptane	142-82-5	Yes	No	Yes	Yes	No
Kaolin	1332-58-7	Yes	No	Yes	Yes	No
Limestone	1317-65-3	No	Yes	Yes	Yes	No
Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Yes	No	Yes	Yes	No
Polybutene	9003-29-6	Yes	No	Yes	No	No
Propene	115-07-1	Yes	No	Yes	Yes	No

#### Inventory (Con't.)

Component	CAS	Japan ENCS	Korea KECL	TSCA
Arien	64742-16-1	Yes	Yes	Yes
Carbon Black	1333-86-4	Yes	Yes	Yes
Ethylene	74-85-1	Yes	Yes	Yes
Heptane	142-82-5	Yes	Yes	Yes
Kaolin	1332-58-7	Yes	Yes	Yes
Limestone	1317-65-3	No	Yes	Yes
Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Yes	Yes	Yes
Polybutene	9003-29-6	Yes	Yes	Yes
Propene	115-07-1	Yes	Yes	Yes

## Australia

### Labor

#### Australia - Hazardous Substances - Substances Requiring Health Surveillance

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

#### Australia - High Volume Industrial Chemicals List

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	
• Kaolin	1332-58-7	
• Carbon Black	1333-86-4	
• Heptane	142-82-5	
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	
• Polybutene	9003-29-6	Not Listed

#### Australia - List of Designated Hazardous Substances - Classification

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	F+ R12, R67

• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Self classification required
• Heptane	142-82-5	F, Xn, Xi, N R11, R65, R38, R67, R50, R53
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	F+ R12
• Polybutene	9003-29-6	Not Listed

## Environment

### Australia - National Pollutant Inventory (NPI) Substance List

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

### Australia - Ozone Protection Act - Scheduled Substances

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

### Australia - Priority Existing Chemical Program

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

## Belgium

### Labor

#### Belgium - Substances and Preparations - Carcinogens and Mutagens

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

## Bulgaria

### Environment

#### Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	3.0 mg/m3 MAHCL
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	3.0 mg/m3 MAHCL
• Polybutene	9003-29-6	Not Listed

#### Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	3.0 mg/m3 MAHCL
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	3.0 mg/m3 MAHCL
• Polybutene	9003-29-6	Not Listed

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	A, B1, D2B
• Kaolin	1332-58-7	D2A
• 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, non-respirable on Health Canada's WHMIS website.)
• Heptane	142-82-5	B2, D2B
• Limestone	1317-65-3	D2A
• Propene	115-07-1	A, B1, D2B
• Polybutene	9003-29-6	Uncontrolled product according to WHMIS classification criteria

#### Canada - WHMIS - Ingredient Disclosure List

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	1 %
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	1 %
• Heptane	142-82-5	1 %
• Limestone	1317-65-3	Not Listed



• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

**Environment****Canada - CEPA - Priority Substances List**

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

**Denmark****Environment****Denmark - List of Undesirable Substances - Product Groups/Function**

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Degreasing agents; Lubricants; Thinners
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

**Mexico****Other****Mexico - Hazard Classifications**

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Class = 2.1 UN1038, UN1962
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Class = 3
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Class = 2.1
• Polybutene	9003-29-6	Not Listed

**Mexico - Regulated Substances**

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	UN1038 (refrigerated liquid); UN1962 (compressed)
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	UN1206
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	UN1077
• Polybutene	9003-29-6	Not Listed

## United States

### Labor

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

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

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

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

### Environment

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

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

#### U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed

• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

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

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

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

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	1.0 % de minimis concentration
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	1.0 % de minimis concentration
• Polybutene	9003-29-6	Not Listed

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

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

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

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

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

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

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

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

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

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

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

**United States - Pennsylvania****Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	
• Polybutene	9003-29-6	Not Listed

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

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Not Listed
• Kaolin	1332-58-7	Not Listed
• Carbon Black	1333-86-4	Not Listed
• Heptane	142-82-5	Not Listed
• Limestone	1317-65-3	Not Listed
• Propene	115-07-1	Not Listed
• Polybutene	9003-29-6	Not Listed

**United States - Rhode Island****Labor****U.S. - Rhode Island - Hazardous Substance List**

• Methane, 2,2'-bis(6-t-butyl-p-cresyl)-	119-47-1	Not Listed
• Arien	64742-16-1	Not Listed
• Ethylene	74-85-1	Toxic; Flammable
• Kaolin	1332-58-7	Toxic
• Carbon Black	1333-86-4	Toxic
• Heptane	142-82-5	Toxic; Flammable
• Limestone	1317-65-3	Toxic
• Propene	115-07-1	Toxic; Flammable
• Polybutene	9003-29-6	Not Listed

**15.2 Chemical Safety Assessment**

- No Chemical Safety Assessment has been carried out.

## Section 16 - Other Information

- Revision Date**
- 29/January/2018
- Preparation Date**
- 16/August/2012
- Other Information**
- Changes to this revision: Updated mailing address.
- Disclaimer/Statement of Liability**
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**Key to abbreviations**

NDA = No Data Available