

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

| FiberTop™ Roof Insulation

Synonyms

| FiberTop™ Roof Insulation B, FiberTop™ Roof Insulation C, and FiberTop™ Roof Insulation E

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

Relevant identified use(s)

| Construction

1.3 Details of the supplier of the safety data sheet

Manufacturer

| Firestone Building Products Company
250 West 96th Street
Indianapolis, IN 46260
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

| Skin Irritation 2 - H315
Carcinogenicity 1A - H350
Specific Target Organ Toxicity Repeated Exposure 1 - H372

DSD/DPD

| Carcinogenic Substances - Category 1
Toxic (T)
R45, R48/23

2.2 Label Elements

CLP

DANGER



Hazard statements

| H315 - Causes skin irritation
H350 - May cause cancer.

H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention | P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P260 - Do not breathe dust.
 P264 - Wash thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P280 - Wear protective gloves .
 P281 - Use personal protective equipment as required.

Response | 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.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
 P314 - Get medical advice/attention if you feel unwell.

Storage/Disposal | P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



Risk phrases | R45 - May cause cancer.
 R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Safety phrases | S37 - Wear suitable gloves.
 S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S53 - Avoid exposure - obtain special instructions before use.

2.3 Other Hazards

CLP | May form combustible dust concentrations in air.
 According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD | May form combustible dust concentrations in air.
 According to European Directive 1999/45/EC this material is considered dangerous.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 | Skin Irritation 2 - H315
 Carcinogenicity 1A - H350
 Specific Target Organ Toxicity Repeated Exposure 1 - H372
 Combustible Dust

2.2 Label elements

OSHA HCS 2012

DANGER



Hazard statements | Causes skin irritation - H315
 May cause cancer. - H350
 Causes damage to organs through prolonged or repeated exposure. - H372
 May form combustible dust concentrations in air.

Precautionary statements

- Prevention** | Obtain special instructions before use. - P201
Do not handle until all safety precautions have been read and understood. - P202
Do not breathe dust. - P260
Wash thoroughly after handling. - P264
Do not eat, drink or smoke when using this product. - P270
Wear protective gloves, clothing, and eye/face protection, . - P280
Use personal protective equipment as required. - P281
- Response** | If on skin: Wash with plenty of water .
Take off contaminated clothing and wash before reuse. - P362
Specific treatment, see supplemental first aid information. - P321
If skin irritation occurs: Get medical advice/attention. - P332+P313
IF exposed or concerned: Get medical advice/attention. - P308+P313
Get medical advice/attention if you feel unwell. - P314
- Storage/Disposal** | Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

2.3 Other hazards

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

Canada

According to WHMIS

2.1 Classification of the substance or mixture

- WHMIS** | Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.2 Label elements

WHMIS



- | Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.3 Other hazards

- WHMIS** | May form combustible dust concentrations in air.
In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

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

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments

Cellulose	CAS: 9004-34-6 EINECS: 232-674-9	75% TO 98%	Ingestion/Oral-Rat LD50 • >5 g/kg Inhalation-Rat LC50 • >5800 mg/m ³ 4 Hour(s) Skin-Rabbit LD50 • >2 g/kg	EU DSD/DPD: Self Classified: Carc. Cat. 1; R45; T; R48/23 EU CLP: Self Classified: Carc. 1A, H350; STOT RE 1, H372 OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs); Comb. Dust	NDA
Asphalt	CAS: 8052-42-4 EINECS: 232-490-9	< 13%	Ingestion/Oral-Rat LD50 • >5000 mg/kg Inhalation-Rat LC50 • >94.4 mg/m ³	EU DSD/DPD: Self Classified: Xi; R38 EU CLP: Self Classified: Skin Irrit. 2, H315 OSHA HCS 2012: Skin Irrit. 2	NDA
Pitch	CAS: 68187-58-6 EINECS: 269-110-6	< 10%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.
Skin	Wash skin with soap and water. If irritation develops and persists, get medical 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	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
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Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media | In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media | None known.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards | Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Smoldering materials may reignite. A fire watch should be maintained for extinguished materials.

Hazardous Combustion Products | Burning may produce irritating fumes and gases, black smoke, carbon dioxide, carbon monoxide, sulfur oxides and hydrogen sulfide.

5.3 Advice for firefighters

- | Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions** | Ventilate enclosed areas. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Emergency Procedures** | ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind.

6.2 Environmental precautions

- | Prevent entry into waterways and sewers.

6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures** | Avoid generating dust.
Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
Sweep up while carefully monitoring dust concentrations in the air or vacuum using vacuum equipped with a HEPA filter.

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** | Use only with adequate ventilation. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat, sparks, and flame. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

- Storage** | Keep container closed. Store in a cool, dry, well-ventilated place.

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
Asphalt (8052-42-4)	TWAs	0.5 mg/m3 TWA (fume, inhalable fraction, as benzene soluble aerosol)	5 mg/m3 TWA (fume)	5 mg/m3 TWA (fume)	5 mg/m3 TWA (Petroleum; Bitumen, fume)	0.5 mg/m3 TWA (inhalable fume, as Benzene-soluble aerosol)
Cellulose (9004-34-6)	TWAs	10 mg/m3 TWA	10 mg/m3 TWA (containing no asbestos and <1% crystalline silica, inhalable dust)	10 mg/m3 TWA	10 mg/m3 TWA	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction)

Exposure Limits/Guidelines (Con't.)						
	Result	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut
Asphalt (8052-42-4)	TWAs	0.5 mg/m3 TWA (fume, inhalable fraction, as Benzene soluble aerosol)	5 mg/m3 TWA (petroleum fumes)	5 mg/m3 TWA (Petroleum fumes)	0.5 mg/m3 TWA (fume, inhalable fraction, as Benzene soluble aerosol)	5 mg/m3 TWA (Petroleum fumes)
	STELs	Not established	Not established	10 mg/m3 STEL (Petroleum fumes)	Not established	10 mg/m3 STEL (Petroleum fumes)
Cellulose (9004-34-6)	TWAs	10 mg/m3 TWA	10 mg/m3 TWA	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)	10 mg/m3 TWA	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon	China
Asphalt (8052-42-4)	STELs	Not established	Not established	Not established	10 mg/m3 STEL (fume)	12.5 mg/m3 STEL (fume, as Benzene soluble matter)
	TWAs	0.5 mg/m3 TWA (fume, inhalable, as Benzene-soluble aerosol)	5 mg/m3 TWAEV (fume)	0.5 mg/m3 TWA (fume and inhalable fraction, as Benzene soluble aerosol)	5 mg/m3 TWA (fume)	5 mg/m3 TWA (fume, as Benzene soluble matter)
Cellulose (9004-34-6)	STELs	Not established	Not established	Not established	20 mg/m3 STEL	20 mg/m3 STEL
	TWAs	10 mg/m3 TWA	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust)	10 mg/m3 TWA	30 mppcf TWA; 10 mg/m3 TWA	10 mg/m3 TWA
Exposure Limits/Guidelines (Con't.)						
	Result	Denmark	NIOSH	OSHA		
Asphalt (8052-42-4)	TWAs	1 mg/m3 TWA (Cyclohexane fraction of total dust, fume)	Not established	Not established		
	Ceilings	Not established	5 mg/m3 Ceiling (fume, 15 min)	Not established		
Cellulose (9004-34-6)	TWAs	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)		

Exposure Control Notations

ACGIH

•Asphalt (8052-42-4): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free))

Germany DFG

•Asphalt (8052-42-4): **Carcinogens:** (Category 2 (considered to be carcinogenic for man, aerosol and vapour)) | **Skin:** (skin notation (aerosol and vapour))

Exposure Limits Supplemental

ACGIH

•Cellulose (9004-34-6): **TLV Basis - Critical Effects:** (upper respiratory tract irritation)

•Asphalt (8052-42-4): **BEIs:** (Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)) |

TLV Basis - Critical Effects: (eye and upper respiratory tract irritation (fume))

8.2 Exposure controls

Engineering Measures/Controls

- | This material 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 protective eyewear (goggles, face shield, or safety glasses).

Skin/Body

- | Wear appropriate gloves.

Environmental Exposure Controls

- | Dispose of waste product in accordance with national and local laws and regulations.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

NIOSH = National Institute of Occupational Safety and Health

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

OSHA = Occupational Safety and Health Administration

TWAEV = Time-Weighted Average Exposure Value

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

BEI = Biological Exposure Indices

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Brown/black solid wood, rigid board with resinous wood odor.
Color	Brown/Black	Odor	Resinous wood.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Not relevant
Specific Gravity/Relative Density	Variable	Water Solubility	Insoluble Weakens upon exposure to water
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	40 g/cm ³ for wood dust	Autoignition	399.2 to 500 F(204 to 260 C) for wood
Flammability (solid, gas)	Combustible		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

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

10.3 Possibility of hazardous reactions

| Hazardous polymerization will not occur.

10.4 Conditions to avoid

| Avoid generating dust. Keep away from heat, sparks and flame.

10.5 Incompatible materials

| Solvents or solvent-based adhesives. Oxidizing agents and drying oils.

10.6 Hazardous decomposition products

| Burning can produce irritating and potentially toxic fumes and gases, black smoke, carbon dioxide, carbon monoxide, sulfur oxides and hydrogen sulfide.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Cellulose (75% TO 98%)	9004-34-6	Acute Toxicity: Inhalation-Rat LC50 • >5800 mg/m ³ 4 Hour(s); Skin-Rabbit LD50 • >2 g/kg
Asphalt (< 13%)	8052-42-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg; <i>Gastrointestinal:Hypermotility, diarrhea</i> ; Inhalation-Rat LC50 • >94.4 mg/m ³ ; Mutagen: Micronucleus test • Unreported Route-Rat • Other Cell Type • 57.8 µg/L; Tumorigen / Carcinogen: Skin-Mouse TDLo • 905 g/kg 2 Year(s)-Intermittent; <i>Tumorigenic:Neoplastic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Skin and Appendages:Other:Tumors</i>

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Carcinogenicity	EU/CLP • Carcinogenicity 1A OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 1 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

Potential Health Effects

Inhalation

- Acute (Immediate)** | Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.
- Chronic (Delayed)** | Prolonged exposure to the dust may cause wheezing, chest tightness, productive cough nasal irritation and symptoms of chronic respiratory disease.

Skin

- Acute (Immediate)** | Causes skin irritation.
- Chronic (Delayed)** | No data available.

Eye

- Acute (Immediate)** | Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.
- Chronic (Delayed)** | No data available.

Ingestion

- Acute (Immediate)** | Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.
- Chronic (Delayed)** | No data available

Carcinogenic Effects

| May cause cancer. This product contains petroleum asphalt. Asphalt fumes arise from hot asphalt. Asphalt fumes (CAS # 8052-42-4): In 1985/87, IARC (International Agency for Research on Cancer) concluded the following: (a) Bitumens are not classifiable as to their carcinogenicity to humans (Group 3). (b) Extracts of steam- and air-refined bitumens are possibly carcinogenic to humans (Group 2B). IARC found that evidence for carcinogenicity from animal studies was: inadequate for undiluted air-refined bitumens; limited for steam-refined and cracking residue bitumens; sufficient for extracts of steam-refined and air-refined bitumen. IARC found that human evidence for carcinogenicity of asphalt fumes was inadequate. Studies of roofers indicated an excess of cancers; however, IARC concluded that, since roofers may be exposed also to coal-tar pitches and other materials, "the excess cancer risk cannot be attributed specifically to bitumens." In 1994, a published review of 20 epidemiology studies of asphalt workers and roofers agreed with IARC, that current human evidence is inadequate for the carcinogenicity of asphalt fumes in humans. Trace amounts of polynuclear aromatic hydrocarbons (PAHs) may be present in some asphalts and can be released upon excessive heating, which results in thermal cracking of the asphalt compounds. Some of these PAHs have been identified as having the potential to induce carcinogenic and reproductive health effects.

Carcinogenic Effects		
	CAS	IARC
Asphalt	8052-42-4	Group 2B-Possible Carcinogen

Key to abbreviations

LC = Lethal Concentration
LD = Lethal Dose

TD= Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

| Material data lacking.

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

| PBT and vPvB assessment has not been carried out.

12.6 Other adverse effects

| No studies have been found.

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	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
ADN	NDA	Not Regulated	NDA	NDA	NDA
ADR/RID	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user

| None specified.

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

| Data lacking.

Section 15 - Regulatory Information

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

SARA Hazard Classifications | Acute, Chronic

State Right To Know				
Component	CAS	MA	NJ	PA
Asphalt	8052-42-4	Yes	Yes	Yes
Cellulose	9004-34-6	Yes	Yes	Yes
Pitch	68187-58-6	No	No	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Asphalt	8052-42-4	Yes	No	Yes	Yes	No
Cellulose	9004-34-6	Yes	No	Yes	Yes	No
Pitch	68187-58-6	Yes	No	Yes	Yes	No

Inventory (Con't.)				
Component	CAS	Japan ENCS	Korea KECL	TSCA
Asphalt	8052-42-4	Yes	Yes	Yes
Cellulose	9004-34-6	Yes	Yes	Yes
Pitch	68187-58-6	Yes	Yes	Yes

Australia

Labor

Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Australia - High Volume Industrial Chemicals List

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	
• Pitch	68187-58-6	Not Listed

Australia - List of Designated Hazardous Substances - Classification

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Self classification required (petroleum fumes)
• Pitch	68187-58-6	Not Listed

Environment

Australia - National Pollutant Inventory (NPI) Substance List

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Australia - Ozone Protection Act - Scheduled Substances

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Australia - Priority Existing Chemical Program

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Bulgaria

Environment

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Cellulose	9004-34-6	Uncontrolled product according to WHMIS classification criteria (including microcrystalline and paper fibers)
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

China

Other**China - Annex I & II - Controlled Chemicals Lists**

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Europe**Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Germany**Labor****Germany - Immission Control - Qualifying Quantities for Major Accident Prevention**

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Environment

Germany - TA Luft - Types and Classes

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	ID Number 326, not considered hazardous to water
• Pitch	68187-58-6	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Germany - Water Classification (VwVwS) - Annex 3

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed

• Pitch	68187-58-6	Not Listed
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United States

Labor

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

Environment

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

United States - California

Environment

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

United States - Pennsylvania

Labor

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

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

• Cellulose	9004-34-6	Not Listed
• Asphalt	8052-42-4	Not Listed
• Pitch	68187-58-6	Not Listed

15.2 Chemical Safety Assessment

| No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Last Revision Date | 23/December/2014

Preparation Date | 09/February/2009

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Key to abbreviations

NDA = No Data Available
