

Section 1 - Product and Company Identification

Material Name Fibrex Asphalt Col-ply Cement / Adhesive

Chemical Category Mixture **Product Code** AP-1071

Product Description Roofing Adhesive.

Product Use Cold Applied Roofing Adhesive

Manufacturer APOC - Asphalt Products Oil Corporation

> 4161 East 7th Avenue Tampa, FL 33605 **United States**

Telephone

813-248-2101 **Technical**

800-424-9300 - CHEMTREC **Emergency**

703-527-3887 – CHEMTREC (Outside US) **Emergency**

Last Revision Date 5/07/2014

Section 2 - Hazards Identification

GHS HAZARDS AND PRECAUTIONS

SIGNAL WORD: WARNING!

Flammable liquid and vapor. Contains Combustible Petroleum Distillates. Harmful or Fatal if swallowed. Keep away from heat, sparks, and open flame. Avoid prolonged breathing of vapor and use only in adequate ventilation. Repeated and prolonged overexposure to solvent vapor may cause brain and nervous system damage, respiratory tract irritation,

dizziness, or loss of consciousness. May cause skin and eye irritation.

Prevention Avoid breathing dust, fume, gas, mist, vapours and/or spray. Do not handle until all safety

> precautions have been read and understood. Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. Use personal protective equipment as required. Keep out of reach of

children.

Response IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a postion

> comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water/shower.

Storage/Disposal Store in a closed container. Store in a well-ventilated place. Dispose of content and/or container in

accordance with local, regional, national, and/or international regulations.



Physical Form Liquid Color

Odor Mild Hydrocarbon. **Flash Point** 105°F(40.55°C)

OSHA(HCS2012) Flammable Liquids - Category 3, Specific Target Organ Toxicity Repeated Exposure -

Category 2, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation

- Category 2A, Carcinogenicity - Category 1A

 Class B - Flammable and Combustible Materials - Division 3, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision B

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GHS

- Flammable Liquids - Category 3, Specific Target Organ Toxicity Repeated Exposure - Category 2, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation

- Category 2A, Carcinogenicity - Category 1A

Route Of Entry - Inhalation, Skin, Eye, Ingestion/Oral

Potential Health Effects Inhalation

Acute (Immediate)

- May cause irritation. Excessive breathing of high vapor concentration can cause

possible unconsciousness and even asphyxiation.

Chronic (Delayed) - Refer to other information found in Section 11-Toxicology.

Skin

WHMIS

Acute (Immediate) - May cause irritation.

Chronic (Delayed) - Repeated and prolonged exposure may cause dermatitis.

Eye

Acute (Immediate) - May cause irritation.

Chronic (Delayed) - Repeated and prolonged exposure may cause irritation.

Ingestion

Acute (Immediate) - May be harmful or fatal if swallowed.

Chronic (Delayed) - Repeated and prolonged exposure may be harmful.

Carcinogenic Effects

- This product or one of its ingredients present at 0.1% or more is listed as a carcinogen by NTP, IARC or OSHA. See Section 11 - Toxicological Information for more details.

Carcinogenic Effects						
CAS IARC NTP						
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen			
Asphalt	8052-42-4	Group 2B-Possible Carcinogen	Under Consideration			

Section 3 - Composition/Information on Ingredients

Hazardous Components							
Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	Classifications According to Regulation/Directive		
Asphalt	8052-42-4	50% TO 70%	NA1999, 232-490-9	Ingestion/Oral-Rat LD50 · >5000 mg/kgInhalation-Rat LC50 · >94.4 mg/m³	WHMIS: Other Toxic Effects - D2A UN GHS: Carc. 2; Eye Irrit. 2A; Skin Irrit. 2 EU DSD/DPD:		
Mineral Spirits	8052-41-3	20% TO 35%	232-489-3		EU DSD/DPD: Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65		
Hydrated aluminium- magnesium silicate	12174-11-7	5% TO 10%			WHMIS: Other Toxic Effects - D2A UN GHS: Carc. 2; STOT RE 2 EU DSD/DPD: Carcinogen 2(Carc.Cat.2); R49; Toxic(T)		
Bentonite	1302-78-9	1% TO 5%	215-108-5		NDA		
Cellulose	9004-34-6	1% TO 5%	232-674-9	Ingestion/Oral-Rat LD50 · >5	WHMIS: Other Toxic Effects - D2B		

Hazardous Components						
Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	Classifications According to Regulation/Directive	
				g/kgInhalation-Rat LC50 · >5800 mg/m³ 4 Hour(s)Skin-Rabbit LD50 · >2 g/kg	UN GHS: Eye Irrit. 2A; Skin Irrit. 2 EU DSD/DPD:	
Quartz	14808-60-7	1% TO 2%	238-878-4		NDA	
1,2,4- Trimethylbenzene	95-63-6	0.5% TO 1.5%	202-436-9	Ingestion/Oral-Rat LD50 · 5 g/kgInhalation-Rat LC50 · 18000 mg/m³ 4 Hour(s)Ingestion/Oral- Mouse LD50 · 6900 mg/kg	UN GHS: Acute Tox. 4 (Inhalation); Aquatic Chronic 2; Flam. Liq. 3; Eye Irrit. 2A; Skin Irrit. 2; STOT RE 2; STOT SE 2 EU DSD/DPD: R10Xn; R20Xi; R36/37/38N; R51 R53	
Benzene, 1,3,5- trimethyl	108-67-8	0.5% TO 1.5%	UN2325, 203-604-4		R10 Xi; R37 N; R51 R53	

This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

breathing is difficult, give oxygen. Get medical attention immediately.

Skin IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

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.

Call a physician or poison control center immediately. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Never give anything by mouth to an

unconscious person.

See Section 2 for Potential Health Effects.

Section 5 - Fire Fighting Measures

Extinguishing Media Unsuitable Extinguishing Media

Eye

Ingestion

Firefighting Procedures

Use CO2, dry chemical, or foam.

Do not use direct stream of water.

Fight advanced or massive fires from safe distance or protected location. Avoid water in a straight hose stream as the stream will cause splatter and spread fire. If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.

Unusual Fire and Explosion Hazards

Hazardous Combustion

Products

Protection of Firefighters

Combustible liquid. May release irritating or toxic gases, fumes, or vapors.

Carbon monoxide, carbon dioxide, hydrocarbons.

Firefighters should wear self-contained breathing apparatus and full protective gear.

Flash Point

Explosion (Flammable) Limits

Upper 6 % Lower 0.9 %

105°F(40.55°C) CC (Closed Cup)

Section 6 - Accidental Release Measures

Personal Precautions

Do not handle damaged containers or spilled material unless wearing appropriate protective clothing. Stay upwind. Ventilate the area before entry.

Emergency Procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Keep unauthorized personnel away.

Environmental Precautions Containment/Clean-up

Measures

Prohibited Materials

Prevent entry into waterways, sewers, basements or confined areas.

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Use appropriate Personal Protective Equipment (PPE).

Avoid contact with strong oxidizing agents and acids.

Section 7 - Handling and Storage

Handling

KEEP OUT OF THE REACH OF CHILDREN! Keep away from heat, sparks, and flame – No Smoking. Use only with adequate ventilation.

Storage

Store in a well-ventilated place. Keep container tightly closed. No open flames, no sparks and no smoking.

Special Packaging Materials Incompatible Materials or Ignition Sources

No data available

Avoid contact with strong oxidizing agents and acids.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

Pictograms

In case of insufficient ventilation, wear suitable respiratory equipment. If listed Respiratory

exposure limits are expected to be exceeded, use approved respirtory protection suitable for the hazard. When used with adequate ventilation, a respirator is not normally required. If required, use a NIOSH-approved air purifying respirator with

organic vapor cartridge or supplied air respirator.

Eye/Face Wear ANSI approved safety glasses with side shields or safety goggles.

Hands Wear chemical protective gloves made of Nitrile or Neoprene. Wear clothing that covers the skin to prevent skin exposure. Skin/Body

General Industrial Hygiene Considerations

Engineering

Measures/Controls

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. When using do not smoke, eat, or drink.

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Use precaution to protect building intake from fumes and vapors created outdoors.

	Exposure Limits/Guidelines								
	Result	ACGIH	Canada Ontario	Mexico	OSHA	United States - California			
Cellulose (9004- 34-6)	TWAs	10 mg/m3 TWA	10 mg/m3 TWAEV (paper fibre, total dust)	10 mg/m3 TWA	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	10 mg/m3 PEL (total dust); 5 mg/m3 PEL (respirable fraction)			
Quartz	TWAs	0.025 mg/m3 TWA	0.10 mg/m3 TWAEV	0.1 mg/m3 TWA	Not established	0.3 mg/m3 PEL (total			

	Exposure Limits/Guidelines							
	Result	ACGIH	Canada Ontario	Mexico	OSHA	United States - California		
(14808- 60-7)		(respirable fraction)	(designated substance regulation)	(respirable fraction)		dust); 0.1 mg/m3 PEL (respirable dust)		
Mineral Spirits (8052- 41-3)	TWAs	100 ppm TWA	525 mg/m3 TWAEV	100 ppm TWA; 523 mg/m3 TWA	500 ppm TWA; 2900 mg/m3 TWA	100 ppm PEL; 525 mg/m3 PEL		
Asphalt (8052- 42-4)	TWAs	0.5 mg/m3 TWA (as benzene soluble aerosol, fume, inhalable fraction)	0.5 mg/m3 TWAEV (fume, inhalable, as benzene-soluble aerosol)	5 mg/m3 TWA	Not established	5 mg/m3 PEL (fume)		

Exposure Control Notations

ACGIH

- Asphalt (8052-42-4):Carcinogens:A4 Not Classifiable as a Human Carcinogen (fume, coal tar-free)
- Quartz (14808-60-7):Carcinogens:A2 Suspected Human Carcinogen

Key to abbreviations

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

Section 9 - Physical and Chemical Properties

Physical Form:	Liquid	Appearance/Description:	Thick black semi-liquid.
Color:	Black	Odor:	Mild Hydrocarbon.
Odor Threshold:	N/A	Boiling Point:	310 to 400 F(154.4444 to 204.4444 C)
Melting Point:	N/A	Decomposition Temperature:	N/A
Heat of Decomposition:	N/A	pH:	Not relevant
Specific Gravity/Relative Density:	= 1.01 Water=1	Density:	= 8.42 lbs/gal
Bulk Density:	N/A	Water Solubility:	N/A
Solvent Solubility:	N/A	Viscosity:	22000 to 30000 Centipoise (cPs, cP) or mPas @ 77 F(25 C)
Vapor Pressure:	= 2 mmHg (torr) @ 68 F(20 C)	Vapor Density:	= 1 Air=1
Evaporation Rate:	= 1 Ether = 1	VOC (Wt.):	NDA
VOC (Vol.):	< 300 g/L <250 g/L(West Coast)	Volatiles (Wt.):	NDA
Volatiles (Vol.):	No data available	Flash Point:	105°F
Flash Point Test Type:	CC (Closed Cup)	UEL:	6 %
LEL:	.9 %	Heat of Combustion (ΔHc):	Not relevant
Autoignition:	NDA	Self-Accelerating Decomposition Temperature (SADT):	Not relevant

Section 10 - Stability and Reactivity

Stability

Hazardous Polymerization
Conditions to Avoid
Incompatible Materials
Hazardous Decomposition
Products

- Stable under normal temperatures and pressures.
- Hazardous polymerization not indicated.
- Avoid contact with strong oxidizing agents and flame.
- Strong oxidizers.
- Carbon monoxide, carbon dioxide and hydrocarbons.

Section 11 - Toxicological Information

Component Name	Concentration	CAS	Data
Asphalt	50% TO 70%	8052-42-4	Acute Toxicity: ; orl-rat LD50:>5000 mg/kg; ihl-rat LC50:>94.4 mg/m3
Bentonite	1% TO 5%	1302-78-9	Acute Toxicity: ; orl-rat TDLo:700 mg/kg/7D-I
Cellulose	1% TO 5%	9004-34-6	Acute Toxicity: ; orl-rat LD50:>5 gm/kg
1,2,4-Trimethylbenzene	0.5% TO 1.5%	95-63-6	Acute Toxicity: ; orl-rat LD50:5 gm/kg; ihl-rat LC50:18000 mg/m3/4H

Other Component Information

IARC has concluded that the following chemicals in this product are carcinogenic to humans (Group 1): silica, quartz. ACGIH has designated the following chemicals in this product as suspected human carcinogens (A2): silica, quartz. NTP has listed the following chemicals in this product as known human carcinogens: silica, quartz. Risk of cancer depends on duration and level of exposure to this product as a dust or aerosol mist.

This product contains petroleum asphalt. Petroleum asphalt is not listed as a carcinogen by OSHA or NTP. THe National Institute of Occupational Safety and Health (NIOSH), has concluded that at higher temperatures roofing asphalt fumes are a potential occupational carcinogen. If this product is heated or comes in contact with heated material, avoid breathing fumes. This product may contain small amounts of polycyclic aromatic hydrocarbons (PAH's) which are recognized carcinogens in humans and experimental animals. Mouse skin painting studies of roofing asphalt vapor concentrate have shown evidence of tumor formation associated with localized skin irritation. Inhalation studies of high airborne concentrations of asphalt/bitumen fumes in rats and mice produced bronchitis, pneumonitis, and lung changes such as fibrosis and cell damage.

Section 12 - Ecological Information

Ecological Fate - No data available.

Persistence/Degradability - No data available.

Bioaccumulation Potential - No data available.

Mobility in Soil - No data available.

Section 13 - Disposal Considerations

Product

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

Section 14 - Transportation Information

DOT – Department of Transportation - Not Regulated when shipped in containers <119 gallons for ground or water domestic shipments.

TDG - Canada Transportation of Dangerous Goods: TARS, LIQUID; UN1999; Hazard Class: 3;

Packing Group: III 1.33 Class 3, Flammable Liquids

TDG Transportation Other Information: <u>Not Restricted</u> under General Exemption for small

container packaging.

IMO/IMDG -International Maritime Transport • TARS, LIQUID; UN1999; Hazard Class: 3; Packing

Group: III –IMDG Code 2.3.2.5 - exempted from marking, labeling & testing of packages.

IATA - International Air Transport Association - TARS, LIQUID; UN1999; Hazard Class: 3; Packing Group: III.

Section 15 - Regulatory Information

SARA Hazard Classifications Risk & Safety Phrases

- Acute, Chronic
- California PROP 65: Asphalt and Asphalt Fumes may contain detectable amounts of chemicals known to the State of California to cause cancer or

reproductive harm. .

State Right To Know					
Component	CAS	MA	MN	NJ	PA
Asphalt	8052-42-4	Yes	Yes	Yes	Yes
Mineral Spirits	8052-41-3	Yes	Yes	Yes	Yes
Hydrated aluminium-magnesium silicate	12174-11-7	No	No	No	No
Bentonite	1302-78-9	No	No	No	No
Cellulose	9004-34-6	Yes	Yes	Yes	Yes
Quartz	14808-60-7	Yes	Yes	Yes	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes	Yes	Yes
Benzene, 1,3,5-trimethyl	108-67-8	Yes	No	No	No

Inventory					
Component	CAS	EU EINECS	TSCA		
Asphalt	8052-42-4	Yes	Yes		
Mineral Spirits	8052-41-3	Yes	Yes		
Hydrated aluminium-magnesium silicate	12174-11-7	No	Yes		
Bentonite	1302-78-9	Yes	Yes		
Cellulose	9004-34-6	Yes	Yes		
Quartz	14808-60-7	Yes	Yes		
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes		
Benzene, 1,3,5-trimethyl	108-67-8	Yes	Yes		

Canada

Labor			
Canada - WHMIS - Classifications of Substa	nces		
• Cellulose	9004-34-6	1% TO 5%	Uncontrolled product according to WHMIS classification criteria (including microcrystalline and paper fibers)
 Asphalt 	8052-42-4	50% TO 70%	Not Listed
1,2,4-Trimethylbenzene	95-63-6	0.5% TO 1.5%	B3
• Quartz	14808-60-7	1% TO 2%	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS website.)
Bentonite	1302-78-9	1% TO 5%	D2A
Mineral Spirits	8052-41-3	20% TO 35%	B3, D2B
Benzene, 1,3,5-trimethyl	108-67-8	0.5% TO 1.5%	B3
Hydrated aluminium-magnesium silicate	12174-11-7	5% TO 10%	Not Listed

United States

Environment U.S CERCLA/SARA - Section 313 - Emiss	sion Reporting	
•Cellulose	9004-34-6	Not Listed
Asphalt	8052-42-4	Not Listed
1,2,4-Trimethylbenzene	95-63-6	1.0 % de minimis concentration
•Quartz	14808-60-7	Not Listed
•Bentonite	1302-78-9	Not Listed
Mineral Spirits	8052-41-3	Not Listed
Benzene, 1,3,5-trimethyl	108-67-8	Not Listed
 Hydrated aluminium-magnesium silicate 	12174-11-7	Not Listed

Section 16 - Other Information

Last Revision Date Prepared By

Disclaimer/Statement of Liability

- 5/07/2014
- GGI Inc.
- This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to verify the suitability and completeness of such information for particular use. APOC does not accept liability for any loss or damage that may occur from the use of this information.





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Chemical Category Mixture **Product Code** AP-1075

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dizziness, or loss of consciousness. May cause skin and eye irritation.

Prevention Avoid breathing dust, fume, gas, mist, vapours and/or spray. Do not handle until all safety

> precautions have been read and understood. Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. Use personal protective equipment as required. Keep out of reach of

children.

Response IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a postion

> comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water/shower.

Storage/Disposal Store in a closed container. Store in a well-ventilated place. Dispose of content and/or container in

accordance with local, regional, national, and/or international regulations.



Physical Form Liquid Color

Odor Mild Hydrocarbon. **Flash Point** 105°F(40.55°C)

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- Category 2A, Carcinogenicity - Category 1A

 Class B - Flammable and Combustible Materials - Division 3, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision B

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GHS

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possible unconsciousness and even asphyxiation.

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Skin

WHMIS

Acute (Immediate) - May cause irritation.

Chronic (Delayed) - Repeated and prolonged exposure may cause dermatitis.

Eye

Acute (Immediate) - May cause irritation.

Chronic (Delayed) - Repeated and prolonged exposure may cause irritation.

Ingestion

Acute (Immediate) - May be harmful or fatal if swallowed.

Chronic (Delayed) - Repeated and prolonged exposure may be harmful.

Carcinogenic Effects

- This product or one of its ingredients present at 0.1% or more is listed as a carcinogen by NTP, IARC or OSHA. See Section 11 - Toxicological Information for more details.

Carcinogenic Effects						
CAS IARC NTP						
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen			
Asphalt	8052-42-4	Group 2B-Possible Carcinogen	Under Consideration			

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	Hazardous Components							
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Bentonite	1302-78-9	1% TO 5%	215-108-5		NDA			
Cellulose	9004-34-6	1% TO 5%	232-674-9	Ingestion/Oral-Rat LD50 · >5	WHMIS: Other Toxic Effects - D2B			

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Quartz	14808-60-7	1% TO 2%	238-878-4		NDA		
1,2,4- Trimethylbenzene	95-63-6	0.5% TO 1.5%	202-436-9	Ingestion/Oral-Rat LD50 · 5 g/kgInhalation-Rat LC50 · 18000 mg/m³ 4 Hour(s)Ingestion/Oral- Mouse LD50 · 6900 mg/kg	UN GHS: Acute Tox. 4 (Inhalation); Aquatic Chronic 2; Flam. Liq. 3; Eye Irrit. 2A; Skin Irrit. 2; STOT RE 2; STOT SE 2 EU DSD/DPD: R10Xn; R20Xi; R36/37/38N; R51 R53		
Benzene, 1,3,5- trimethyl	108-67-8	0.5% TO 1.5%	UN2325, 203-604-4		R10 Xi; R37 N; R51 R53		

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breathing is difficult, give oxygen. Get medical attention immediately.

Skin IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

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.

Call a physician or poison control center immediately. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Never give anything by mouth to an

unconscious person.

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Extinguishing Media Unsuitable Extinguishing Media

Eye

Ingestion

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Unusual Fire and Explosion Hazards

Hazardous Combustion

Products

Protection of Firefighters

Combustible liquid. May release irritating or toxic gases, fumes, or vapors.

Carbon monoxide, carbon dioxide, hydrocarbons.

Firefighters should wear self-contained breathing apparatus and full protective gear.

Flash Point

Explosion (Flammable) Limits

Upper 6 % Lower 0.9 %

105°F(40.55°C) CC (Closed Cup)

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Measures

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Prevent entry into waterways, sewers, basements or confined areas.

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Section 7 - Handling and Storage

Handling

KEEP OUT OF THE REACH OF CHILDREN! Keep away from heat, sparks, and flame – No Smoking. Use only with adequate ventilation.

Storage

Store in a well-ventilated place. Keep container tightly closed. No open flames, no sparks and no smoking.

Special Packaging Materials Incompatible Materials or Ignition Sources

No data available

Avoid contact with strong oxidizing agents and acids.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

Pictograms

In case of insufficient ventilation, wear suitable respiratory equipment. If listed Respiratory

exposure limits are expected to be exceeded, use approved respirtory protection suitable for the hazard. When used with adequate ventilation, a respirator is not normally required. If required, use a NIOSH-approved air purifying respirator with

organic vapor cartridge or supplied air respirator.

Eye/Face Wear ANSI approved safety glasses with side shields or safety goggles.

Hands Wear chemical protective gloves made of Nitrile or Neoprene. Wear clothing that covers the skin to prevent skin exposure. Skin/Body

General Industrial Hygiene Considerations

Engineering

Measures/Controls

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. When using do not smoke, eat, or drink.

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Use precaution to protect building intake from fumes and vapors created outdoors.

	Exposure Limits/Guidelines							
	Result	ACGIH	Canada Ontario	Mexico	OSHA	United States - California		
Cellulose (9004- 34-6)	TWAs	10 mg/m3 TWA	10 mg/m3 TWAEV (paper fibre, total dust)	10 mg/m3 TWA	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	10 mg/m3 PEL (total dust); 5 mg/m3 PEL (respirable fraction)		
Quartz	TWAs	0.025 mg/m3 TWA	0.10 mg/m3 TWAEV	0.1 mg/m3 TWA	Not established	0.3 mg/m3 PEL (total		

	Exposure Limits/Guidelines							
	Result	ACGIH	Canada Ontario	Mexico	OSHA	United States - California		
(14808- 60-7)		(respirable fraction)	(designated substance regulation)	(respirable fraction)		dust); 0.1 mg/m3 PEL (respirable dust)		
Mineral Spirits (8052- 41-3)	TWAs	100 ppm TWA	525 mg/m3 TWAEV	100 ppm TWA; 523 mg/m3 TWA	500 ppm TWA; 2900 mg/m3 TWA	100 ppm PEL; 525 mg/m3 PEL		
Asphalt (8052- 42-4)	TWAs	0.5 mg/m3 TWA (as benzene soluble aerosol, fume, inhalable fraction)	0.5 mg/m3 TWAEV (fume, inhalable, as benzene-soluble aerosol)	5 mg/m3 TWA	Not established	5 mg/m3 PEL (fume)		

Exposure Control Notations

ACGIH

- Asphalt (8052-42-4):Carcinogens:A4 Not Classifiable as a Human Carcinogen (fume, coal tar-free)
- Quartz (14808-60-7):Carcinogens:A2 Suspected Human Carcinogen

Key to abbreviations

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

Section 9 - Physical and Chemical Properties

Physical Form:	Liquid	Appearance/Description:	Thick black semi-liquid.
Color:	Black	Odor:	Mild Hydrocarbon.
Odor Threshold:	N/A	Boiling Point:	310 to 400 F(154.4444 to 204.4444 C)
Melting Point:	N/A	Decomposition Temperature:	N/A
Heat of Decomposition:	N/A	pH:	Not relevant
Specific Gravity/Relative Density:	= 1.01 Water=1	Density:	= 8.42 lbs/gal
Bulk Density:	N/A	Water Solubility:	N/A
Solvent Solubility:	N/A	Viscosity:	22000 to 30000 Centipoise (cPs, cP) or mPas @ 77 F(25 C)
Vapor Pressure:	= 2 mmHg (torr) @ 68 F(20 C)	Vapor Density:	= 1 Air=1
Evaporation Rate:	= 1 Ether = 1	VOC (Wt.):	NDA
VOC (Vol.):	< 300 g/L <250 g/L(West Coast)	Volatiles (Wt.):	NDA
Volatiles (Vol.):	No data available	Flash Point:	105°F
Flash Point Test Type:	CC (Closed Cup)	UEL:	6 %
LEL:	.9 %	Heat of Combustion (ΔHc):	Not relevant
Autoignition:	NDA	Self-Accelerating Decomposition Temperature (SADT):	Not relevant

Section 10 - Stability and Reactivity

Stability

Hazardous Polymerization
Conditions to Avoid
Incompatible Materials
Hazardous Decomposition
Products

- Stable under normal temperatures and pressures.
- Hazardous polymerization not indicated.
- Avoid contact with strong oxidizing agents and flame.
- Strong oxidizers.
- Carbon monoxide, carbon dioxide and hydrocarbons.

Section 11 - Toxicological Information

Component Name	Concentration	CAS	Data
Asphalt 50% TO 70% 8052-42-4		Acute Toxicity: ; orl-rat LD50:>5000 mg/kg; ihl-rat LC50:>94.4 mg/m3	
Bentonite	1% TO 5%	1302-78-9	Acute Toxicity: ; orl-rat TDLo:700 mg/kg/7D-I
Cellulose	1% TO 5%	9004-34-6	Acute Toxicity: ; orl-rat LD50:>5 gm/kg
1,2,4-Trimethylbenzene	0.5% TO 1.5%	95-63-6	Acute Toxicity: ; orl-rat LD50:5 gm/kg; ihl-rat LC50:18000 mg/m3/4H

Other Component Information

IARC has concluded that the following chemicals in this product are carcinogenic to humans (Group 1): silica, quartz. ACGIH has designated the following chemicals in this product as suspected human carcinogens (A2): silica, quartz. NTP has listed the following chemicals in this product as known human carcinogens: silica, quartz. Risk of cancer depends on duration and level of exposure to this product as a dust or aerosol mist.

This product contains petroleum asphalt. Petroleum asphalt is not listed as a carcinogen by OSHA or NTP. THe National Institute of Occupational Safety and Health (NIOSH), has concluded that at higher temperatures roofing asphalt fumes are a potential occupational carcinogen. If this product is heated or comes in contact with heated material, avoid breathing fumes. This product may contain small amounts of polycyclic aromatic hydrocarbons (PAH's) which are recognized carcinogens in humans and experimental animals. Mouse skin painting studies of roofing asphalt vapor concentrate have shown evidence of tumor formation associated with localized skin irritation. Inhalation studies of high airborne concentrations of asphalt/bitumen fumes in rats and mice produced bronchitis, pneumonitis, and lung changes such as fibrosis and cell damage.

Section 12 - Ecological Information

Ecological Fate - No data available.

Persistence/Degradability - No data available.

Bioaccumulation Potential - No data available.

Mobility in Soil - No data available.

Section 13 - Disposal Considerations

Product

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

Section 14 - Transportation Information

DOT – Department of Transportation - Not Regulated when shipped in containers <119 gallons for ground or water domestic shipments.

TDG - Canada Transportation of Dangerous Goods: TARS, LIQUID; UN1999; Hazard Class: 3;

Packing Group: III 1.33 Class 3, Flammable Liquids

TDG Transportation Other Information: <u>Not Restricted</u> under General Exemption for small

container packaging.

IMO/IMDG -International Maritime Transport • TARS, LIQUID; UN1999; Hazard Class: 3; Packing

Group: III –IMDG Code 2.3.2.5 - exempted from marking, labeling & testing of packages.

IATA - International Air Transport Association - TARS, LIQUID; UN1999; Hazard Class: 3; Packing Group: III.

Section 15 - Regulatory Information

SARA Hazard Classifications Risk & Safety Phrases

- Acute, Chronic
- California PROP 65: Asphalt and Asphalt Fumes may contain detectable amounts of chemicals known to the State of California to cause cancer or

reproductive harm. .

State Right To Know					
Component	CAS	MA	MN	NJ	PA
Asphalt	8052-42-4	Yes	Yes	Yes	Yes
Mineral Spirits	8052-41-3	Yes	Yes	Yes	Yes
Hydrated aluminium-magnesium silicate	12174-11-7	No	No	No	No
Bentonite	1302-78-9	No	No	No	No
Cellulose	9004-34-6	Yes	Yes	Yes	Yes
Quartz	14808-60-7	Yes	Yes	Yes	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes	Yes	Yes
Benzene, 1,3,5-trimethyl	108-67-8	Yes	No	No	No

Inventory						
Component	CAS	EU EINECS	TSCA			
Asphalt	8052-42-4	Yes	Yes			
Mineral Spirits	8052-41-3	Yes	Yes			
Hydrated aluminium-magnesium silicate	12174-11-7	No	Yes			
Bentonite	1302-78-9	Yes	Yes			
Cellulose	9004-34-6	Yes	Yes			
Quartz	14808-60-7	Yes	Yes			
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes			
Benzene, 1,3,5-trimethyl	108-67-8	Yes	Yes			

Canada

Labor			
Canada - WHMIS - Classifications of Substa	nces		
• Cellulose	9004-34-6	1% TO 5%	Uncontrolled product according to WHMIS classification criteria (including microcrystalline and paper fibers)
 Asphalt 	8052-42-4	50% TO 70%	Not Listed
1,2,4-Trimethylbenzene	95-63-6	0.5% TO 1.5%	B3
• Quartz	14808-60-7	1% TO 2%	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS website.)
Bentonite	1302-78-9	1% TO 5%	D2A
Mineral Spirits	8052-41-3	20% TO 35%	B3, D2B
Benzene, 1,3,5-trimethyl	108-67-8	0.5% TO 1.5%	B3
Hydrated aluminium-magnesium silicate	12174-11-7	5% TO 10%	Not Listed

United States

Environment U.S CERCLA/SARA - Section 313 - Emiss	sion Reporting	
•Cellulose	9004-34-6	Not Listed
Asphalt	8052-42-4	Not Listed
1,2,4-Trimethylbenzene	95-63-6	1.0 % de minimis concentration
•Quartz	14808-60-7	Not Listed
•Bentonite	1302-78-9	Not Listed
Mineral Spirits	8052-41-3	Not Listed
Benzene, 1,3,5-trimethyl	108-67-8	Not Listed
 Hydrated aluminium-magnesium silicate 	12174-11-7	Not Listed

Section 16 - Other Information

Last Revision Date Prepared By

Disclaimer/Statement of Liability

- 5/07/2014
- GGI Inc.
- This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to verify the suitability and completeness of such information for particular use. APOC does not accept liability for any loss or damage that may occur from the use of this information.





Section 1 - Product and Company Identification

Material Name Fibrex Asphalt Col-ply Cement / Adhesive

Chemical Category Mixture **Product Code** AP-1077

Product Description Roofing Adhesive.

Product Use Cold Applied Roofing Adhesive

Manufacturer APOC - Asphalt Products Oil Corporation

> 4161 East 7th Avenue Tampa, FL 33605 **United States**

Telephone

813-248-2101 **Technical**

800-424-9300 - CHEMTREC **Emergency**

703-527-3887 – CHEMTREC (Outside US) **Emergency**

Last Revision Date 5/07/2014

Section 2 - Hazards Identification

GHS HAZARDS AND PRECAUTIONS

SIGNAL WORD: WARNING!

Flammable liquid and vapor. Contains Combustible Petroleum Distillates. Harmful or Fatal if swallowed. Keep away from heat, sparks, and open flame. Avoid prolonged breathing of vapor and use only in adequate ventilation. Repeated and prolonged overexposure to solvent vapor may cause brain and nervous system damage, respiratory tract irritation,

dizziness, or loss of consciousness. May cause skin and eye irritation.

Prevention Avoid breathing dust, fume, gas, mist, vapours and/or spray. Do not handle until all safety

> precautions have been read and understood. Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. Use personal protective equipment as required. Keep out of reach of

children.

Response IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a postion

> comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water/shower.

Storage/Disposal Store in a closed container. Store in a well-ventilated place. Dispose of content and/or container in

accordance with local, regional, national, and/or international regulations.



Physical Form Liquid Color

Odor Mild Hydrocarbon. **Flash Point** 105°F(40.55°C)

OSHA(HCS2012) Flammable Liquids - Category 3, Specific Target Organ Toxicity Repeated Exposure -

Category 2, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation

- Category 2A, Carcinogenicity - Category 1A

 Class B - Flammable and Combustible Materials - Division 3, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision B

(T)

GHS

- Flammable Liquids - Category 3, Specific Target Organ Toxicity Repeated Exposure - Category 2, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation

- Category 2A, Carcinogenicity - Category 1A

Route Of Entry - Inhalation, Skin, Eye, Ingestion/Oral

Potential Health Effects Inhalation

Acute (Immediate)

- May cause irritation. Excessive breathing of high vapor concentration can cause

possible unconsciousness and even asphyxiation.

Chronic (Delayed) - Refer to other information found in Section 11-Toxicology.

Skin

WHMIS

Acute (Immediate) - May cause irritation.

Chronic (Delayed) - Repeated and prolonged exposure may cause dermatitis.

Eye

Acute (Immediate) - May cause irritation.

Chronic (Delayed) - Repeated and prolonged exposure may cause irritation.

Ingestion

Acute (Immediate) - May be harmful or fatal if swallowed.

Chronic (Delayed) - Repeated and prolonged exposure may be harmful.

Carcinogenic Effects

- This product or one of its ingredients present at 0.1% or more is listed as a carcinogen by NTP, IARC or OSHA. See Section 11 - Toxicological Information for more details.

Carcinogenic Effects							
CAS IARC NTP							
Quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen				
Asphalt	8052-42-4	Group 2B-Possible Carcinogen	Under Consideration				

Section 3 - Composition/Information on Ingredients

	Hazardous Components							
Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	Classifications According to Regulation/Directive			
Asphalt	8052-42-4	50% TO 70%	NA1999, 232-490-9	Ingestion/Oral-Rat LD50 · >5000 mg/kgInhalation-Rat LC50 · >94.4 mg/m³	WHMIS: Other Toxic Effects - D2A UN GHS: Carc. 2; Eye Irrit. 2A; Skin Irrit. 2 EU DSD/DPD:			
Mineral Spirits	8052-41-3	20% TO 35%	232-489-3		EU DSD/DPD: Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65			
Hydrated aluminium- magnesium silicate	12174-11-7	5% TO 10%			WHMIS: Other Toxic Effects - D2A UN GHS: Carc. 2; STOT RE 2 EU DSD/DPD: Carcinogen 2(Carc.Cat.2); R49; Toxic(T)			
Bentonite	1302-78-9	1% TO 5%	215-108-5		NDA			
Cellulose	9004-34-6	1% TO 5%	232-674-9	Ingestion/Oral-Rat LD50 · >5	WHMIS: Other Toxic Effects - D2B			

Hazardous Components						
Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	Classifications According to Regulation/Directive	
				g/kgInhalation-Rat LC50 · >5800 mg/m³ 4 Hour(s)Skin-Rabbit LD50 · >2 g/kg	UN GHS: Eye Irrit. 2A; Skin Irrit. 2 EU DSD/DPD:	
Quartz	14808-60-7	1% TO 2%	238-878-4		NDA	
1,2,4- Trimethylbenzene	95-63-6	0.5% TO 1.5%	202-436-9	Ingestion/Oral-Rat LD50 · 5 g/kgInhalation-Rat LC50 · 18000 mg/m³ 4 Hour(s)Ingestion/Oral- Mouse LD50 · 6900 mg/kg	UN GHS: Acute Tox. 4 (Inhalation); Aquatic Chronic 2; Flam. Liq. 3; Eye Irrit. 2A; Skin Irrit. 2; STOT RE 2; STOT SE 2 EU DSD/DPD: R10Xn; R20Xi; R36/37/38N; R51 R53	
Benzene, 1,3,5- trimethyl	108-67-8	0.5% TO 1.5%	UN2325, 203-604-4		R10 Xi; R37 N; R51 R53	

This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

breathing is difficult, give oxygen. Get medical attention immediately.

Skin IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

Eye 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.

Call a physician or poison control center immediately. If swallowed, do not induce vomiting: seek Ingestion medical advice immediately and show this container or label. Never give anything by mouth to an

unconscious person.

See Section 2 for Potential Health Effects.

Section 5 - Fire Fighting Measures

Extinguishing Media Unsuitable Extinguishing Media

Firefighting Procedures

Use CO2, dry chemical, or foam.

Do not use direct stream of water.

Fight advanced or massive fires from safe distance or protected location. Avoid water in a straight hose stream as the stream will cause splatter and spread fire. If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.

Unusual Fire and Explosion Hazards

Hazardous Combustion

Products

Combustible liquid. May release irritating or toxic gases, fumes, or vapors.

Carbon monoxide, carbon dioxide, hydrocarbons.

Protection of Firefighters Firefighters should wear self-contained breathing apparatus and full protective gear.

Flash Point Explosion (Flammable) Limits

Upper Lower

105°F(40.55°C) CC (Closed Cup)

6 % 0.9 %

Section 6 - Accidental Release Measures

Personal Precautions

Do not handle damaged containers or spilled material unless wearing appropriate protective clothing. Stay upwind. Ventilate the area before entry.

Emergency Procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Keep unauthorized personnel away.

Environmental Precautions Containment/Clean-up

Measures

Prohibited Materials

Prevent entry into waterways, sewers, basements or confined areas.

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Use appropriate Personal Protective Equipment (PPE).

Avoid contact with strong oxidizing agents and acids.

Section 7 - Handling and Storage

Handling

KEEP OUT OF THE REACH OF CHILDREN! Keep away from heat, sparks, and flame – No Smoking. Use only with adequate ventilation.

Storage

Store in a well-ventilated place. Keep container tightly closed. No open flames, no sparks and no smoking.

Special Packaging Materials Incompatible Materials or Ignition Sources

No data available

Avoid contact with strong oxidizing agents and acids.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

Pictograms



Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment. If listed exposure limits are expected to be exceeded, use approved respirtory protection suitable for the hazard. When used with adequate ventilation, a respirator is not normally required. If required, use a NIOSH-approved air purifying respirator with organic vapor cartridge or supplied air respirator.

Eye/Face

Wear ANSI approved safety glasses with side shields or safety goggles.

Hands Skin/Body Wear chemical protective gloves made of Nitrile or Neoprene. Wear clothing that covers the skin to prevent skin exposure.

General Industrial Hygiene Considerations Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. When using do not smoke, eat, or drink.

Engineering Measures/Controls Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Use precaution to protect building intake from fumes and vapors created outdoors.

	Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Mexico	OSHA	United States - California	
Cellulose (9004- 34-6)	TWAs	10 mg/m3 TWA	10 mg/m3 TWAEV (paper fibre, total dust)	10 mg/m3 TWA	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	10 mg/m3 PEL (total dust); 5 mg/m3 PEL (respirable fraction)	
Quartz	TWAs	0.025 mg/m3 TWA	0.10 mg/m3 TWAEV	0.1 mg/m3 TWA	Not established	0.3 mg/m3 PEL (total	

	Exposure Limits/Guidelines						
	Result	ACGIH Canada Ontario		Mexico	OSHA	United States - California	
(14808- 60-7)		(respirable fraction)	(designated substance regulation)	(respirable fraction)		dust); 0.1 mg/m3 PEL (respirable dust)	
Mineral Spirits (8052- 41-3)	TWAs	100 ppm TWA	525 mg/m3 TWAEV	100 ppm TWA; 523 mg/m3 TWA	500 ppm TWA; 2900 mg/m3 TWA	100 ppm PEL; 525 mg/m3 PEL	
Asphalt (8052- 42-4)	TWAs	0.5 mg/m3 TWA (as benzene soluble aerosol, fume, inhalable fraction)	0.5 mg/m3 TWAEV (fume, inhalable, as benzene-soluble aerosol)	5 mg/m3 TWA	Not established	5 mg/m3 PEL (fume)	

Exposure Control Notations

ACGIH

- Asphalt (8052-42-4):Carcinogens:A4 Not Classifiable as a Human Carcinogen (fume, coal tar-free)
- Quartz (14808-60-7):Carcinogens:A2 Suspected Human Carcinogen

Key to abbreviations

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

Section 9 - Physical and Chemical Properties

Physical Form:	Liquid	Appearance/Description:	Thick black semi-liquid.
Color:	Black	Odor:	Mild Hydrocarbon.
Odor Threshold:	N/A	Boiling Point:	310 to 400 F(154.4444 to 204.4444 C)
Melting Point:	N/A	Decomposition Temperature:	N/A
Heat of Decomposition:	N/A	pH:	Not relevant
Specific Gravity/Relative Density:	= 1.01 Water=1	Density:	= 8.42 lbs/gal
Bulk Density:	N/A	Water Solubility:	N/A
Solvent Solubility:	N/A	Viscosity:	22000 to 30000 Centipoise (cPs, cP) or mPas @ 77 F(25 C)
Vapor Pressure:	= 2 mmHg (torr) @ 68 F(20 C)	Vapor Density:	= 1 Air=1
Evaporation Rate:	= 1 Ether = 1	VOC (Wt.):	NDA
VOC (Vol.):	< 300 g/L <250 g/L(West Coast)	Volatiles (Wt.):	NDA
Volatiles (Vol.):	No data available	Flash Point:	105°F
Flash Point Test Type:	CC (Closed Cup)	UEL:	6 %
LEL:	.9 %	Heat of Combustion (ΔHc):	Not relevant
Autoignition:	NDA	Self-Accelerating Decomposition Temperature (SADT):	Not relevant

Section 10 - Stability and Reactivity

Stability

Hazardous Polymerization
Conditions to Avoid
Incompatible Materials
Hazardous Decomposition
Products

- Stable under normal temperatures and pressures.
- Hazardous polymerization not indicated.
- Avoid contact with strong oxidizing agents and flame.
- Strong oxidizers.
- Carbon monoxide, carbon dioxide and hydrocarbons.

Section 11 - Toxicological Information

Component Name	Concentration	CAS	Data
Asphalt	50% TO 70%	8052-42-4	Acute Toxicity: ; orl-rat LD50:>5000 mg/kg; ihl-rat LC50:>94.4 mg/m3
Bentonite	1% TO 5%	1302-78-9	Acute Toxicity: ; orl-rat TDLo:700 mg/kg/7D-I
Cellulose	1% TO 5%	9004-34-6	Acute Toxicity: ; orl-rat LD50:>5 gm/kg
1,2,4-Trimethylbenzene	0.5% TO 1.5%	95-63-6	Acute Toxicity: ; orl-rat LD50:5 gm/kg; ihl-rat LC50:18000 mg/m3/4H

Other Component Information

IARC has concluded that the following chemicals in this product are carcinogenic to humans (Group 1): silica, quartz. ACGIH has designated the following chemicals in this product as suspected human carcinogens (A2): silica, quartz. NTP has listed the following chemicals in this product as known human carcinogens: silica, quartz. Risk of cancer depends on duration and level of exposure to this product as a dust or aerosol mist.

This product contains petroleum asphalt. Petroleum asphalt is not listed as a carcinogen by OSHA or NTP. THe National Institute of Occupational Safety and Health (NIOSH), has concluded that at higher temperatures roofing asphalt fumes are a potential occupational carcinogen. If this product is heated or comes in contact with heated material, avoid breathing fumes. This product may contain small amounts of polycyclic aromatic hydrocarbons (PAH's) which are recognized carcinogens in humans and experimental animals. Mouse skin painting studies of roofing asphalt vapor concentrate have shown evidence of tumor formation associated with localized skin irritation. Inhalation studies of high airborne concentrations of asphalt/bitumen fumes in rats and mice produced bronchitis, pneumonitis, and lung changes such as fibrosis and cell damage.

Section 12 - Ecological Information

Ecological Fate - No data available.

Persistence/Degradability - No data available.

Bioaccumulation Potential - No data available.

Mobility in Soil - No data available.

Section 13 - Disposal Considerations

Product

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

Section 14 - Transportation Information

DOT – Department of Transportation - Not Regulated when shipped in containers <119 gallons for ground or water domestic shipments.

TDG - Canada Transportation of Dangerous Goods: TARS, LIQUID; UN1999; Hazard Class: 3;

Packing Group: III 1.33 Class 3, Flammable Liquids

TDG Transportation Other Information: <u>Not Restricted</u> under General Exemption for small

container packaging.

IMO/IMDG -International Maritime Transport • TARS, LIQUID; UN1999; Hazard Class: 3; Packing

Group: III –IMDG Code 2.3.2.5 - exempted from marking, labeling & testing of packages.

IATA - International Air Transport Association - TARS, LIQUID; UN1999; Hazard Class: 3; Packing Group: III.

Section 15 - Regulatory Information

SARA Hazard Classifications Risk & Safety Phrases

- Acute, Chronic
- California PROP 65: Asphalt and Asphalt Fumes may contain detectable amounts of chemicals known to the State of California to cause cancer or

reproductive harm. .

State Right To Know					
Component	CAS	MA	MN	NJ	PA
Asphalt	8052-42-4	Yes	Yes	Yes	Yes
Mineral Spirits	8052-41-3	Yes	Yes	Yes	Yes
Hydrated aluminium-magnesium silicate	12174-11-7	No	No	No	No
Bentonite	1302-78-9	No	No	No	No
Cellulose	9004-34-6	Yes	Yes	Yes	Yes
Quartz	14808-60-7	Yes	Yes	Yes	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes	Yes	Yes
Benzene, 1,3,5-trimethyl	108-67-8	Yes	No	No	No

Inventory					
Component	CAS	EU EINECS	TSCA		
Asphalt	8052-42-4	Yes	Yes		
Mineral Spirits	8052-41-3	Yes	Yes		
Hydrated aluminium-magnesium silicate	12174-11-7	No	Yes		
Bentonite	1302-78-9	Yes	Yes		
Cellulose	9004-34-6	Yes	Yes		
Quartz	14808-60-7	Yes	Yes		
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes		
Benzene, 1,3,5-trimethyl	108-67-8	Yes	Yes		

Canada

Labor			
Canada - WHMIS - Classifications of Substa	nces		
• Cellulose	9004-34-6	1% TO 5%	Uncontrolled product according to WHMIS classification criteria (including microcrystalline and paper fibers)
 Asphalt 	8052-42-4	50% TO 70%	Not Listed
1,2,4-Trimethylbenzene	95-63-6	0.5% TO 1.5%	B3
• Quartz	14808-60-7	1% TO 2%	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS website.)
Bentonite	1302-78-9	1% TO 5%	D2A
Mineral Spirits	8052-41-3	20% TO 35%	B3, D2B
Benzene, 1,3,5-trimethyl	108-67-8	0.5% TO 1.5%	B3
Hydrated aluminium-magnesium silicate	12174-11-7	5% TO 10%	Not Listed

United States

Environment U.S CERCLA/SARA - Section 313 - Emiss	sion Reporting	
•Cellulose	9004-34-6	Not Listed
Asphalt	8052-42-4	Not Listed
1,2,4-Trimethylbenzene	95-63-6	1.0 % de minimis concentration
•Quartz	14808-60-7	Not Listed
•Bentonite	1302-78-9	Not Listed
Mineral Spirits	8052-41-3	Not Listed
Benzene, 1,3,5-trimethyl	108-67-8	Not Listed
 Hydrated aluminium-magnesium silicate 	12174-11-7	Not Listed

Section 16 - Other Information

Last Revision Date Prepared By

Disclaimer/Statement of Liability

- 5/07/2014
- GGI Inc.
- This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to verify the suitability and completeness of such information for particular use. APOC does not accept liability for any loss or damage that may occur from the use of this information.

