

Section 1 - Product and Company Identification

Material Name	- Non-Fibered Asphalt Coating
Chemical Category	- Mixture
Product Code	- AP-2005
Product Description	- Black, non-fibered liquid asphalt roof and foundation coating.
Product Use	- Asphalt based roof and foundation coating.
Synonyms	- Non Fibered Foundation and Roof Coating
Manufacturer	- APOC 4161 E. 7th Avenue Tampa, FL 33605 United States
Telephone	
Technical	- 813-248-2101 - Customer Service: 8 AM - 5 PM M-F Eastern Standard Time
<u>Emergency</u>	- 800-424-9300 - CHEMTREC
<u>Emergency</u>	- 703-527-3887 - CHEMTREC (Outside US)
Last Revision Date	- 12/12/14

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	Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, gas, mist, vapors and/or spray. Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. Wear protective gloves, clothing, and eye/face protection. Keep out of reach of children.
Response	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
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	- Black
Odor	- Mild Hydrocarbon.
Flash Point	- 105°F(40.6°C)
OSHA(HCS2012)	- Flammable Liquids - Category 3, Skin Corrosion/Irritation - Category 3, Serious Eye Damage, Eye Irritation - Category 2, Carcinogenicity - Category 1A
WHMIS	- Class B - Flammable and Combustible Materials - Division 3, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A



GHS

Route Of Entry

- R65, R36/37/38, R45
- Flammable Liquids - Category 3, Skin Corrosion/Irritation - Category 3, Serious Eye Damage, Eye Irritation - Category 2, Carcinogenicity - Category 1A
- 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

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- Repeated and prolonged exposure may be harmful. Repeated and prolonged exposure may cause dermatitis.

Eye

Acute (Immediate)

- May cause irritation. May cause burning and redness or swelling of the eyes.

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
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	Other
Asphalt	8052-42-4	60% TO 65%	NA1999, 232-490-9	Ingestion/Oral-Rat LD50 · >5000 mg/kg Inhalation-Rat LC50 · >94.4 mg/m ³	WHMIS: Other Toxic Effects - D2A UN GHS: Carc. 2; Eye Irrit. 2A; Skin Irrit. 2	NDA
mineral spirits	8052-41-3	20% TO 25%	232-489-3		EU DSD/DPD: Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65	NDA
1,2,4-Trimethylbenzene	95-63-6	1% TO 5%	202-436-9	Ingestion/Oral-Rat LD50 - 5 g/kg Inhalation-Rat LC50 - 18000 mg/m ³ 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	NDA
Bentonite	1302-78-9	1% TO 5%	215-108-5		WHMIS: Other Toxic Effects - D2A UN GHS: STOT RE 2	NDA

Hazardous Components

Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	Classifications According to Regulation/Directive	Other
Benzene, 1,3,5-trimethyl	108-67-8	1% TO 5%	UN2325, 203-604-4		EU DSD/DPD: R10 Xi; R37 N; R51 R53	NDA

Non-Hazardous Components

Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	EU R & S Phrases	Other
Water	7732-18-5	5% TO 10%	231-791-2	Ingestion/Oral-Rat LD50 · >90 mL/kg	NDA	NDA

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.

Section 4 - First Aid Measures

- Inhalation** - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician or poison control center.
- Skin** - Rinse skin immediately with plenty of water for 15-20 minutes. Remove contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention. Wash clothing 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.
- Ingestion** - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5 - Fire Fighting Measures

- Extinguishing Media** - LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO2, water spray or regular foam.
- Unsuitable Extinguishing Media** - Do not use direct stream of water.
- Firefighting Procedures** - 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 can be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
- Unusual Fire and Explosion Hazards** - Combustible liquid.
Containers may explode when heated.
May release irritating or toxic gases, fumes, or vapors.
- Hazardous Combustion Products** - Carbon monoxide, carbon dioxide, hydrocarbons.
- Protection of Firefighters** - Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
- Flash Point** - 105 F(40.5°C) CC (Closed Cup)
- Explosion Limits**
- Upper** - 6 %
- Lower** - .9 %
- Autoignition Temperature** - 450°F(232°C)

Section 6 - Accidental Release Measures

- Personal Precautions** - Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation to remove vapors, fumes, dust etc. Stay upwind.
- Emergency Procedures** - ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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. Ventilate closed spaces before entering.
- Environmental Precautions** - Prevent entry into waterways, sewers, basements or confined areas. Prevent spreading of vapors through sewers, ventilation systems and confined areas.
- Containment/Clean-up Measures** - Contain and recover liquid when possible. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not use water to flush spill area. Use appropriate Personal Protective Equipment (PPE).
- Prohibited Materials** - Avoid contact with strong oxidizing agents or bases.

Section 7 - Handling and Storage

- Handling** - KEEP OUT OF THE REACH OF CHILDREN! Keep away from heat, sparks, and flame – No Smoking. Keep containers tightly closed when not in use. Do not use in areas without adequate ventilation.
- Storage** - Store in a well-ventilated place. Keep container tightly closed. Keep away from incompatible materials. Keep away from sources of ignition – No Smoking.
- Special Packaging Materials** - Not Applicable.
- Incompatible Materials or Ignition Sources** - Avoid contact with strong oxidizing agents and acids.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment Pictograms



- Respiratory** - If listed exposure limits are expected to be exceeded, use approved respiratory protection suitable for the hazard. In case of insufficient ventilation, wear suitable respiratory equipment.
- Eye/Face** - Wear ANSI approved safety glasses with side shields or safety goggles.
- Hands** - Wear chemical protective gloves made of Nitrile or Neoprene.
- Skin/Body** - Wear clothing that covers the skin to prevent skin exposure.
- General Industrial Hygiene Considerations** - Avoid contact with skin and eyes. Avoid breathing vapors. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.
- 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
mineral spirits (8052-41-3)	TWAs	100 ppm TWA	525 mg/m ³ TWAEV	100 ppm TWA; 523 mg/m ³ TWA	500 ppm TWA; 2900 mg/m ³ TWA	100 ppm PEL; 525 mg/m ³ PEL
Asphalt (8052-42-4)	TWAs	0.5 mg/m ³ TWA (as benzene soluble aerosol, fume, inhalable fraction)	0.5 mg/m ³ TWAEV (fume, inhalable, as benzene-soluble aerosol)	5 mg/m ³ TWA	Not established	5 mg/m ³ PEL (fume)

Exposure Control Notations

Exposure Limits/Guidelines

	Result	ACGIH	Canada Ontario	Mexico	OSHA	United States - California
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ACGIH

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

Key to abbreviations

- PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

- Physical Form** - Liquid
- Appearance/Description** - Black Liquid.

Color: Black		Odor: Mild Hydrocarbon.	
Taste: NDA		Odor Threshold: NDA	
Boiling Point:	315 to 550 F(157.2222 to 287.7778 C)	Vapor Pressure:	= 2 mmHg (torr) @ 68 F(20 C)
Melting Point:	NDA	Vapor Density:	= 4.9 Air=1
Specific Gravity/Relative Density:	= 1.0186 Water=1	Evaporation Rate:	= 1 Ether = 1
Density:	= 8.5 lbs/gal	VOC (Wt.):	NDA
Bulk Density:	NDA	VOC (Vol.):	< 300 g/L
Solvent Solubility:	NDA	Flash Point:	105° F(41°C)
Viscosity:	= 1800 Poise (P, Ps) or dyne-second/cm ² @ 140 F(60 C)	Flash Point Test Type:	CC (Closed Cup)
Coefficient of Water:	NDA	Autoignition:	450° F(232°C)

Section 10 - Stability and Reactivity

- Stability** - Stable under normal temperatures and pressures.
- Hazardous Polymerization** - Hazardous polymerization not indicated.
- Conditions to Avoid** - Avoid contact with strong oxidizing agents and flame.
- Incompatible Materials** - Strong oxidizers and acids.
- Hazardous Decomposition Products** - Carbon monoxide, carbon dioxide and hydrocarbons.

Section 11 - Toxicological Information

Component Name	Concentration	CAS	Data
Asphalt	60% TO 65%	8052-42-4	Acute Toxicity: ; orl-rat LD50:>5000 mg/kg; ihl-rat LC50:>94.4 mg/m3 Mutagen: ; dna-mus-skn 600 mg/kg Tumorigen/Carcinogen: ; skn-mus TDLo:905 gm/kg/2Y-I
Mineral spirits	20% TO 25%	8052-41-3	Acute Toxicity: ; orl-rat LD :>5 gm/kg; ihl-rat LC50:>1400 ppm/8H; skn-rbt TDLo:2 gm/kg/4W-I Irritation: ; eye-hmn 100 ppm MLD
1,2,4-Trimethylbenzene	1% TO 5%	95-63-6	Acute Toxicity: ; orl-rat LD50:5 gm/kg; ihl-rat LC50:18000 mg/m3/4H
Bentonite	1% TO 5%	1302-78-9	Acute Toxicity: ; orl-rat TDLo:700 mg/kg/7D-I
Benzene, 1,3,5-trimethyl	1% TO 5%	108-67-8	Acute Toxicity: ; orl-rat LD50:5000 mg/kg; ihl-rat TCLo:100 ppm/6H/20D-I Irritation: ; eye-rbt 500 mg/24H MLD; skn-rbt 20 mg/24H MOD

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.

Other Information - 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 in recent studies. 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 - United States - Department of Transportation

Shipping Name: *Not restricted* if shipped in containers <450L (119 gallons), Restricted if shipped in containers > 450 L (119 gallons)

ID Number:NA1993

Hazard Class:3

Packing Group:III

TDG Transportation Other Information•1.33 Class 3, Flammable Liquids: *Not Restricted* under General Exemption for small container packaging.

TDG - Canada - Transport of Dangerous Goods

Shipping Name:Tars liquid

ID Number:UN 1999

Hazard Class:3

Labeling Class:3

Packing Group:III

IMO/IMDG Transportation Other Information• IMDG Code 2.3.2.5 - *exempted* from marking, labeling & testing of packages.

IMO/IMDG –International Maritime Transport

Shipping Name:Tars liquid

ID Number:UN1999

Hazard Class:3

Labeling Class:3

Packing Group:III

Section 15 - Regulatory Information

- SARA Hazard Classifications** - Acute, Chronic
- Risk & Safety Phrases** - 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	NJ	PA
Water	7732-18-5	No	No	No
Asphalt	8052-42-4	Yes	Yes	Yes
mineral spirits	8052-41-3	Yes	Yes	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes	Yes
Bentonite	1302-78-9	No	No	No
Benzene, 1,3,5-trimethyl	108-67-8	Yes	No	No

Inventory

Component	CAS	EU EINECS	TSCA
Water	7732-18-5	Yes	Yes
Asphalt	8052-42-4	Yes	Yes
mineral spirits	8052-41-3	Yes	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes
Bentonite	1302-78-9	Yes	Yes
Benzene, 1,3,5-trimethyl	108-67-8	Yes	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

▪ Asphalt	8052-42-4	60% TO 65%	Not Listed
▪ 1,2,4-Trimethylbenzene	95-63-6	1% TO 5%	B3
▪ Bentonite	1302-78-9	1% TO 5%	D2A
▪ mineral spirits	8052-41-3	20% TO 25%	B3, D2B
▪ Benzene, 1,3,5-trimethyl	108-67-8	1% TO 5%	B3

United States

Environment

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

▪ Asphalt	8052-42-4	60% TO 65%	Not Listed
▪ 1,2,4-Trimethylbenzene	95-63-6	1% TO 5%	1.0 % de minimis concentration
▪ Bentonite	1302-78-9	1% TO 5%	Not Listed
▪ mineral spirits	8052-41-3	20% TO 25%	Not Listed
▪ Benzene, 1,3,5-trimethyl	108-67-8	1% TO 5%	Not Listed

United States - California

Environment

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

▪ Asphalt	8052-42-4	60% TO 65%	Not Listed
▪ 1,2,4-Trimethylbenzene	95-63-6	1% TO 5%	Not Listed
▪ Bentonite	1302-78-9	1% TO 5%	Not Listed
▪ mineral spirits	8052-41-3	20% TO 25%	Not Listed
▪ Benzene, 1,3,5-trimethyl	108-67-8	1% TO 5%	Not Listed

Section 16 - Other Information

Last Revision Date

- 12/12/2014

Prepared By

- GG Inc.

Disclaimer/Statement of Liability

- 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.

NFPA



Section 1 - Product and Company Identification

Material Name	- Non-Fibered Asphalt Coating
Chemical Category	- Mixture
Product Code	- AP-2007
Product Description	- Black, non-fibered liquid asphalt roof and foundation coating.
Product Use	- Asphalt based roof and foundation coating.
Synonyms	- Non Fibered Foundation and Roof Coating
Manufacturer	- APOC 4161 E. 7th Avenue Tampa, FL 33605 United States
Telephone	
Technical	- 813-248-2101 - Customer Service: 8 AM - 5 PM M-F Eastern Standard Time
<u>Emergency</u>	- 800-424-9300 - CHEMTREC
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Last Revision Date	- 12/12/14

Section 2 - Hazards Identification

GHS HAZARDS AND PRECAUTIONS

SIGNAL WORD: WARNING!

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Prevention	Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, gas, mist, vapors and/or spray. Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. Wear protective gloves, clothing, and eye/face protection. Keep out of reach of children.
Response	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
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	- Black
Odor	- Mild Hydrocarbon.
Flash Point	- 105°F(40.6°C)
OSHA(HCS2012)	- Flammable Liquids - Category 3, Skin Corrosion/Irritation - Category 3, Serious Eye Damage, Eye Irritation - Category 2, Carcinogenicity - Category 1A
WHMIS	- Class B - Flammable and Combustible Materials - Division 3, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A



GHS

Route Of Entry

- R65, R36/37/38, R45
- Flammable Liquids - Category 3, Skin Corrosion/Irritation - Category 3, Serious Eye Damage, Eye Irritation - Category 2, Carcinogenicity - Category 1A
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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

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- Repeated and prolonged exposure may be harmful. Repeated and prolonged exposure may cause dermatitis.

Eye

Acute (Immediate)

- May cause irritation. May cause burning and redness or swelling of the eyes.

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
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		WHMIS: Other Toxic Effects - D2A UN GHS: STOT RE 2	NDA

Hazardous Components

Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	Classifications According to Regulation/Directive	Other
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Non-Hazardous Components

Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	EU R & S Phrases	Other
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- Ingestion** - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

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- Extinguishing Media** - LARGE FIRE: Water spray, fog or regular foam.
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May release irritating or toxic gases, fumes, or vapors.
- Hazardous Combustion Products** - Carbon monoxide, carbon dioxide, hydrocarbons.
- Protection of Firefighters** - Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
- Flash Point** - 105 F(40.5°C) CC (Closed Cup)
- Explosion Limits**
- Upper** - 6 %
- Lower** - .9 %
- Autoignition Temperature** - 450°F(232°C)

Section 6 - Accidental Release Measures

- Personal Precautions** - Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation to remove vapors, fumes, dust etc. Stay upwind.
- Emergency Procedures** - ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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. Ventilate closed spaces before entering.
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- Prohibited Materials** - Avoid contact with strong oxidizing agents or bases.

Section 7 - Handling and Storage

- Handling** - KEEP OUT OF THE REACH OF CHILDREN! Keep away from heat, sparks, and flame – No Smoking. Keep containers tightly closed when not in use. Do not use in areas without adequate ventilation.
- Storage** - Store in a well-ventilated place. Keep container tightly closed. Keep away from incompatible materials. Keep away from sources of ignition – No Smoking.
- Special Packaging Materials** - Not Applicable.
- Incompatible Materials or Ignition Sources** - Avoid contact with strong oxidizing agents and acids.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment Pictograms



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Exposure Limits/Guidelines

	Result	ACGIH	Canada Ontario	Mexico	OSHA	United States - California
mineral spirits (8052-41-3)	TWAs	100 ppm TWA	525 mg/m ³ TWAEV	100 ppm TWA; 523 mg/m ³ TWA	500 ppm TWA; 2900 mg/m ³ TWA	100 ppm PEL; 525 mg/m ³ PEL
Asphalt (8052-42-4)	TWAs	0.5 mg/m ³ TWA (as benzene soluble aerosol, fume, inhalable fraction)	0.5 mg/m ³ TWAEV (fume, inhalable, as benzene-soluble aerosol)	5 mg/m ³ TWA	Not established	5 mg/m ³ PEL (fume)

Exposure Control Notations

Exposure Limits/Guidelines

	Result	ACGIH	Canada Ontario	Mexico	OSHA	United States - California
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ACGIH

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

Key to abbreviations

- PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

- Physical Form** - Liquid
- Appearance/Description** - Black Liquid.

Color: Black		Odor: Mild Hydrocarbon.	
Taste: NDA		Odor Threshold: NDA	
Boiling Point:	315 to 550 F(157.2222 to 287.7778 C)	Vapor Pressure:	= 2 mmHg (torr) @ 68 F(20 C)
Melting Point:	NDA	Vapor Density:	= 4.9 Air=1
Specific Gravity/Relative Density:	= 1.0186 Water=1	Evaporation Rate:	= 1 Ether = 1
Density:	= 8.5 lbs/gal	VOC (Wt.):	NDA
Bulk Density:	NDA	VOC (Vol.):	< 300 g/L
Solvent Solubility:	NDA	Flash Point:	105° F(41°C)
Viscosity:	= 1800 Poise (P, Ps) or dyne-second/cm ² @ 140 F(60 C)	Flash Point Test Type:	CC (Closed Cup)
Coefficient of Water:	NDA	Autoignition:	450° F(232°C)

Section 10 - Stability and Reactivity

- Stability** - Stable under normal temperatures and pressures.
- Hazardous Polymerization** - Hazardous polymerization not indicated.
- Conditions to Avoid** - Avoid contact with strong oxidizing agents and flame.
- Incompatible Materials** - Strong oxidizers and acids.
- Hazardous Decomposition Products** - Carbon monoxide, carbon dioxide and hydrocarbons.

Section 11 - Toxicological Information

Component Name	Concentration	CAS	Data
Asphalt	60% TO 65%	8052-42-4	Acute Toxicity: ; orl-rat LD50:>5000 mg/kg; ihl-rat LC50:>94.4 mg/m3 Mutagen: ; dna-mus-skn 600 mg/kg Tumorigen/Carcinogen: ; skn-mus TDLo:905 gm/kg/2Y-I
Mineral spirits	20% TO 25%	8052-41-3	Acute Toxicity: ; orl-rat LD :>5 gm/kg; ihl-rat LC50:>1400 ppm/8H; skn-rbt TDLo:2 gm/kg/4W-I Irritation: ; eye-hmn 100 ppm MLD
1,2,4-Trimethylbenzene	1% TO 5%	95-63-6	Acute Toxicity: ; orl-rat LD50:5 gm/kg; ihl-rat LC50:18000 mg/m3/4H
Bentonite	1% TO 5%	1302-78-9	Acute Toxicity: ; orl-rat TDLo:700 mg/kg/7D-I
Benzene, 1,3,5-trimethyl	1% TO 5%	108-67-8	Acute Toxicity: ; orl-rat LD50:5000 mg/kg; ihl-rat TCLo:100 ppm/6H/20D-I Irritation: ; eye-rbt 500 mg/24H MLD; skn-rbt 20 mg/24H MOD

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.

- Other Information** - 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 in recent studies. 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 - United States - Department of Transportation

Shipping Name: *Not restricted* if shipped in containers <450L (119 gallons), Restricted if shipped in containers > 450 L (119 gallons)

ID Number:NA1993

Hazard Class:3

Packing Group:III

TDG Transportation Other Information•1.33 Class 3, Flammable Liquids: *Not Restricted* under General Exemption for small container packaging.

TDG - Canada - Transport of Dangerous Goods

Shipping Name:Tars liquid

ID Number:UN 1999

Hazard Class:3

Labeling Class:3

Packing Group:III

IMO/IMDG Transportation Other Information• IMDG Code 2.3.2.5 - *exempted* from marking, labeling & testing of packages.

IMO/IMDG –International Maritime Transport

Shipping Name:Tars liquid

ID Number:UN1999

Hazard Class:3

Labeling Class:3

Packing Group:III

Section 15 - Regulatory Information

- SARA Hazard Classifications** - Acute, Chronic
- Risk & Safety Phrases** - 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	NJ	PA
Water	7732-18-5	No	No	No
Asphalt	8052-42-4	Yes	Yes	Yes
mineral spirits	8052-41-3	Yes	Yes	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes	Yes
Bentonite	1302-78-9	No	No	No
Benzene, 1,3,5-trimethyl	108-67-8	Yes	No	No

Inventory

Component	CAS	EU EINECS	TSCA
Water	7732-18-5	Yes	Yes
Asphalt	8052-42-4	Yes	Yes
mineral spirits	8052-41-3	Yes	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes
Bentonite	1302-78-9	Yes	Yes
Benzene, 1,3,5-trimethyl	108-67-8	Yes	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

▪ Asphalt	8052-42-4	60% TO 65%	Not Listed
▪ 1,2,4-Trimethylbenzene	95-63-6	1% TO 5%	B3
▪ Bentonite	1302-78-9	1% TO 5%	D2A
▪ mineral spirits	8052-41-3	20% TO 25%	B3, D2B
▪ Benzene, 1,3,5-trimethyl	108-67-8	1% TO 5%	B3

United States

Environment

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

▪ Asphalt	8052-42-4	60% TO 65%	Not Listed
▪ 1,2,4-Trimethylbenzene	95-63-6	1% TO 5%	1.0 % de minimis concentration
▪ Bentonite	1302-78-9	1% TO 5%	Not Listed
▪ mineral spirits	8052-41-3	20% TO 25%	Not Listed
▪ Benzene, 1,3,5-trimethyl	108-67-8	1% TO 5%	Not Listed

United States - California

Environment

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

▪ Asphalt	8052-42-4	60% TO 65%	Not Listed
▪ 1,2,4-Trimethylbenzene	95-63-6	1% TO 5%	Not Listed
▪ Bentonite	1302-78-9	1% TO 5%	Not Listed
▪ mineral spirits	8052-41-3	20% TO 25%	Not Listed
▪ Benzene, 1,3,5-trimethyl	108-67-8	1% TO 5%	Not Listed

Section 16 - Other Information

Last Revision Date

- 12/12/2014

Prepared By

- GG Inc.

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NFPA

