# KMG

## MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Material nameP1 Creosote OilRevision date08-26-2011

Version # 01
CAS # Mixture

**Product use**Wood preservative.

Synonym(s) None.

Manufacturer/Supplier KMG- Bernuth, Inc.

9555 W. Sam Houston Parkway S.

Suite 600

Houston, Texas 77099 Phone Number: 713-600-3800 CHEMTREC: 1-800-424-9300

Emergency medical treatment: 1-800-322-8177

#### 2. Hazards Identification

**Emergency** 

Physical state Liquid.

**Appearance** Oily, viscous liquid.

Emergency overview WARNING

Suspect cancer hazard - may cause cancer. Causes skin, eye and respiratory tract irritation. May

be harmful if swallowed. May cause allergic skin reaction.

**OSHA** regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

**Routes of exposure** Eye contact. Skin contact. Inhalation. Ingestion.

**Eyes** Causes eye irritation.

Skin Causes skin irritation. May cause allergic skin reaction. May cause photosensitization, evidenced

by repeated occurrence of a dermatitic rash on exposure to sunlight.

**Inhalation** Causes respiratory tract irritation. Prolonged exposure is associated with lung cancer and urinary

cancer.

**Ingestion** May be harmful if swallowed. Swallowing or vomiting of the liquid may result in aspiration into the

lungs.

Target organs Eyes. Skin. Respiratory system. Reproductive system. Central nervous system.

Chronic effects Suspect cancer hazard - may cause cancer. May cause scrotal and bladder cancer. May cause

allergic skin reaction. May cause damage to the liver and kidneys. May cause lung damage. May cause blood damage. May cause central nervous system effects. Repeated exposure to coal tar products may increase the risk of more serious skin disorders including a variety of skin cancers. Some skin cancers, such as malignant melanoma, have a high mortality rate. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. The coal tar component of this formulation contains polynuclear

aromatic hydrocarbon (PAHs).

Signs and symptoms Inhalation: May cause damage to mucous membranes in nose, throat, lungs and bronchial

system. Eye contact: May cause redness and pain. Chronic exposure may cause conjunctivitis, blepharoconjunctivitis and photophobia. Skin contact: Sensitization. Ingestion may cause nausea, headache and dizziness. Be aware that symptoms of chemical pneumonia (shortness of

breath) may occur several hours after exposure.

Potential environmental effects Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3. Composition / Information on Ingredients

Components	CAS#	Percent
Creosote	8001-58-9	98.5
Constituted components	-	-
Naphthalene	91-20-3	< 16.15

Phenanthrene	85-01-8	< 14.15
Acenaphthene	83-32-9	< 7.8
Fluoranthene	206-44-0	< 7.45
Pyrene	129-00-0	< 5.8
Dibenzofuran	132-64-9	< 4.5
Anthracene	120-12-7	< 3.8
1,2-Benzphenanthrene	218-01-9	< 1.5
Benz[a]anthracene	56-55-3	< 1.5
Benzo[b]fluoranthene	205-99-2	0.1 - 1
Benzo[a]pyrene	50-32-8	< 0.4
Benzo[k]fluoranthene	207-08-9	< 0.2
Benzo[j]fluoranthene	205-82-3	< 0.2
1,10-(1,2-Phenylene)pyrene	193-39-5	< 0.1
Quinoline	91-22-5	< 0.06
P-xylene	106-42-3	< 0.02

**Composition comments** 

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First Aid Measures

First aid procedures

Inhalation

**Eye contact** Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open

eyes wide apart. Get medical attention if irritation develops and persists.

**Skin contact** Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. In

case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.

**Ingestion** Rinse mouth thoroughly with water and give large amounts of milk or water to people not

unconscious. Do not induce vomiting. If vomiting occurs, the head should be kept low so that

stomach vomit doesn't enter the lungs. Get medical attention immediately.

Notes to physician In case of shortness of breath, give oxygen. Keep victim warm.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

#### 5. Fire Fighting Measures

Flammable properties If strongly heated, the product releases polynuclear aromatic hydrocarbons (PAHs), which include

carcinogenic substances.

**Extinguishing media** 

Suitable extinguishing

media

Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

None.

**Protection of firefighters** 

Specific hazards arising from the chemical

Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterized.

Fire fighting

equipment/instructions

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in

case of fire.

**Specific methods**Use standard firefighting procedures and consider the hazards of other involved materials.

Caution should be exercised when using water or foam as frothing may occur, especially if

directed onto containers of hot or burning material.

### 6. Accidental Release Measures

Personal precautions This product must not be heated in a sealed or confined space which has no avenue to allow

pressure relief of the expanding vapors. This could cause excessive pressure buildup, blow back of materials, and explosion. Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Stay upwind. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering. Ensure adequate ventilation. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Avoid inhalation of vapors and contact with skin and eyes. In case of spills, beware of slippery floors and

surfaces. Wear suitable protective clothing. See Section 8 of the MSDS for Personal Protective

Equipment.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

**Methods for containment** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

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

Methods for cleaning up Remove sources of ignition.

> Large Spills: Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labeled with correct contents and hazard symbol. Collect and dispose of spillage as indicated in section 13 of the MSDS.

Small Spills: Absorb spillage with suitable absorbent material. Collect in containers and seal

securely.

Never return spills in original containers for re-use.

Other information Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

Handling People working with this product should get instructions before use. This product should only be

used in an industrial workplace. Pregnant women should not work with the product, if there is the least risk of exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Avoid inhalation of vapors and contact with skin and eyes. Do not smoke and do not spray near an open flame or other sources of ignition. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Ground container and transfer

equipment to eliminate static electric sparks. Observe good industrial hygiene practices.

Storage Keep away from heat, sparks and open flame. Do not store near heat sources or expose to high

temperatures. Store in closed original container in a dry place. Keep in a well-ventilated place. Keep this material away from food, drink and animal feed. Store away from incompatible

Value

materials.

## 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value
Naphthalene (91-20-3)	TWA	10 ppm
	STEL	15 ppm
P-xylene (106-42-3)	TWA	100 ppm
	STEL	150 ppm

# US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	туре	value
Naphthalene (91-20-3)	PEL	10 ppm
		50 mg/m3
P-xylene (106-42-3)	PEL	100 ppm
		435 mg/m3

# Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Naphthalene (91-20-3)	TWA	10 ppm	
	STEL	15 ppm	
	TWA	52 mg/m3	
	STEL	79 mg/m3	
P-xylene (106-42-3)	TWA	100 ppm	
· ,	STEL	150 ppm	

Components	Туре	Value
	TWA	434 mg/m3
	STEL	651 mg/m3
Canada. British Columbia Safety Regulation 296/97, a		s for Chemical Substances, Occupational Health and
Components	Type	Value
Naphthalene (91-20-3)	TWA	10 ppm
. , ,	STEL	15 ppm
P-xylene (106-42-3)	TWA	100 ppm
,	STEL	150 ppm
Canada, Ontario OELs, (Mi	nistry of Labor - Control of Exposure	e to Biological or Chemical Agents)
Components	Туре	Value
Naphthalene (91-20-3)	TWA	10 ppm
(01 20 0)	STEL	15 ppm
	TWA	52 mg/m3
	STEL	78 mg/m3
P-xylene (106-42-3)	TWA	100 ppm
1 Aylette (100 42 0)	STEL	150 ppm
	TWA	435 mg/m3
	STEL	650 mg/m3
O		<del>-</del>
Canada. Quebec OELS. (M Components		ting the Quality of the Work Environment) Value
	Туре	
Benzo[a]pyrene (50-32-8)	TWA	0.005 mg/m3
Naphthalene (91-20-3)	TWA	10 ppm
	STEL	15 ppm
	TWA	52 mg/m3
	STEL	79 mg/m3
P-xylene (106-42-3)	TWA	100 ppm
	STEL	150 ppm
	TWA	434 mg/m3
	STEL	651 mg/m3
Mexico. Occupational Expe Components	osure Limit Values Type	Value
Naphthalene (91-20-3)	TWA	10 ppm
Napritrialerie (91-20-3)	STEL	15 ppm
	TWA	50 mg/m3
	STEL	75 mg/m3
P-xylene (106-42-3)	TWA	100 ppm
1 Aylette (100 42 0)	STEL	150 ppm
	TWA	435 mg/m3
	STEL	655 mg/m3
osure guidelines	No exposure standards allocated.	333g,s
	-	a scaled or confined appear which has no evenue to allow
ineering controls	pressure relief of the expanding vap of materials, and explosion. Mechar Use explosion-proof equipment. Pro	a sealed or confined space which has no avenue to allow ors. This could cause excessive pressure buildup, blow batical ventilation or local exhaust ventilation may be required vide adequate ventilation. Observe occupational exposure tion of dust, fumes and vapors. Provide access to washing er and fatty cream.
sonal protective equipment		
Eye / face protection	Wear approved safety goggles.	
-		not the liquid may penetrate the gloves. Francest at a series
Skin protection	Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change i advisable. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.	
Respiratory protection	•	anteed, ventilation and protective clothing must be used. I
		pirators are used, a program should be instituted to assure

P1 Creosote Oil CPH MSDS NA

compliance with OSHA Standard 63 FR 1152, January 8, 1998. Use a NIOSH/MSHA approved air

purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator

use.

**General hygiene** considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Launder contaminated clothing before reuse. Remove and isolate contaminated clothing and

shoes. Observe any medical surveillance requirements.

## 9. Physical & Chemical Properties

**Appearance** Oily, viscous liquid.

Color Dark brown.

Odor Strong aromatic, tar-like.

**Odor threshold** Not available.

Physical state Liquid. **Form** Liquid. 7 - 8 pН

Not applicable. **Melting point** Freezing point Not applicable.

> 381.2 °F (> 194 °C) **Boiling point** 

> 311 °F (> 155 °C) Pensky-Martens Closed Cup (ASTM D-93) Flash point

**Evaporation rate** < 1 (Butyl acetate = 1.0)

Flammability limits in air, upper, No data available.

% by volume

Flammability limits in air, lower, No data available.

% by volume

Vapor pressure 13 mm Hg (25°C, Approx.)

Vapor density > 1 (Air=1) Specific gravity 1.03 - 1.18Insoluble. Solubility (water) Partition coefficient

(n-octanol/water)

Not available.

**Auto-ignition temperature** 636.8 °F (336 °C) **Decomposition temperature** Not available. **Viscosity** No data available. **Bulk density** 8.6 - 9.85 lb/gal 1.03 - 1.18 Density Percent volatile 475 g/l

## 10. Chemical Stability & Reactivity Information

Chemical stability Stable under normal temperature conditions.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Strong oxidizing agents. Mixing of chlorosulfonic acid and creosote oil in a closed container can

cause an increase in temperature and pressure (NFPA 491M, 1991).

Hazardous decomposition

products

Aromatic hydrocarbons. Carbon oxides. Nitrogen oxides. Sulfur oxides.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

## 11. Toxicological Information

## Toxicological data

Components	Test Results
P-xylene (106-42-3)	Acute Dermal LD50 Rabbit: > 43 g/kg
Anthracene (120-12-7)	Acute Inhalation LCL0 Rat: 8000 mg/l 4 Hours Acute Oral LD50 Rat: 3523 - 8600 mg/kg Acute Dermal LD50 Rat: > 1320 mg/kg
	Acute Oral LD50 Rat: > 16000 mg/kg

Components Test Results

Fluoranthene (206-44-0)

Acute Dermal LD50 Rabbit: 3180 mg/kg

Creosote (8001-58-9)

Acute Dermal LD50 Rabbit: > 2000 mg/kg

Acute Oral LD50 Rat: 725 mg/kg

Naphthalene (91-20-3)

Acute Dermal LD50 Rabbit: > 2 g/kg

Acute Oral LD50 Rat: 490 mg/kg

Quinoline (91-22-5)

Acute Dermal LD50 Rabbit: 540 mg/kg

Acute Oral LD50 Rat: 331 mg/kg

Acute effects May be harmful if swallowed.

**Local effects** Causes skin, eye and respiratory tract irritation.

**US ACGIH Threshold Limit Values: Skin designation** 

Naphthalene (CAS 91-20-3)

Can be absorbed through the skin.

Sensitization May cause allergic skin reaction. May cause photosensitization, evidenced by repeated

occurrence of a dermatitic rash on exposure to sunlight.

**Chronic effects**The coal tar pitch component of this formulation contains polynuclear aromatic hydrocarbons

(PAHs). Some PAHs are recognized carcinogens and may cause skin, lung and bladder cancer. May cause central nervous system effects. May cause damage to the liver and kidneys. May cause lung damage. May cause blood damage. May cause photosensitization, evidenced by repeated occurrence of a dermatitic rash on exposure to sunlight. Pre-existing skin and

respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. Chronic exposure may cause conjunctivitis, blepharoconjunctivitis and photophobia.

Carcinogenicity Suspect cancer hazard. May cause scrotal and bladder cancer. Repeated exposure to coal tar

products may increase the risk of more serious skin disorders including a variety of skin cancers.

Some skin cancers, such as malignant melanoma, have a high mortality rate.

**ACGIH Carcinogens** 

1,2-Benzphenanthrene (CAS 218-01-9)

A3 Confirmed animal carcinogen with unknown relevance to

humans

Benz[a]anthracene (CAS 56-55-3)

Benzo[a]pyrene (CAS 50-32-8)

Benzo[b]fluoranthene (CAS 205-99-2)

A2 Suspected human carcinogen.

A2 Suspected human carcinogen.

A2 Suspected human carcinogen.

Naphthalene (CAS 91-20-3)

P-xylene (CAS 106-42-3)

A4 Not classifiable as a human carcinogen.

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

1,10-(1,2-Phenylene)pyrene (CAS 193-39-5)
2B Possibly carcinogenic to humans.
1,2-Benzphenanthrene (CAS 218-01-9)
2B Possibly carcinogenic to humans.

Acenaphthene (CAS 83-32-9)

Anthracene (CAS 120-12-7)

3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.

Benz[a]anthracene (CAS 56-55-3) 2B Possibly carcinogenic to humans.

Benzo[a]pyrene (CAS 50-32-8) 1 Carcinogenic to humans.

Benzo[b]fluoranthene (CAS 205-99-2)

Benzo[j]fluoranthene (CAS 205-82-3)

Benzo[k]fluoranthene (CAS 207-08-9)

2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

Fluoranthene (CAS 206-44-0)

3 Not classifiable as to carcinogenicity to humans.

Naphthalene (CAS 91-20-3) 2B Possibly carcinogenic to humans.

Phenanthrene (CAS 85-01-8)

P-xylene (CAS 106-42-3)

Pyrene (CAS 129-00-0)

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

**US NTP Report on Carcinogens: Anticipated carcinogen** 

1,10-(1,2-Phenylene)pyrene (CAS 193-39-5)Anticipated carcinogen.Benz[a]anthracene (CAS 56-55-3)Anticipated carcinogen.Benzo[a]pyrene (CAS 50-32-8)Anticipated carcinogen.Benzo[b]fluoranthene (CAS 205-99-2)Anticipated carcinogen.Benzo[j]fluoranthene (CAS 205-82-3)Anticipated carcinogen.Benzo[k]fluoranthene (CAS 207-08-9)Anticipated carcinogen.

Naphthalene (CAS 91-20-3)

Anticipated carcinogen.

Mutagenicity No data available.

No data available. **Neurological effects** No data available. Reproductive effects

Symptoms and target

organs

Inhalation: May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Eye contact: May cause redness and pain. Skin contact: Sensitization. Ingestion may

cause dizziness, nausea and vomiting. Be aware that symptoms of chemical pneumonia

(shortness of breath) may occur several hours after exposure.

Swallowing or vomiting of the liquid may result in aspiration into the lungs. **Further information** 

## 12. Ecological Information

Ecotoxicological of	data
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Components		Test Results
P-xylene (106-42-3)		EC50 Water flea (Daphnia magna): 3.55 - 6.31 mg/l 48 hours
		LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 2.6 mg/l 96 hours
Anthracene (120-12-7)		EC50 Water flea (Daphnia magna): 0.081 - 0.112 mg/l 48 hours
		LC50 Bluegill (Lepomis macrochirus): 0 - 0.0032 mg/l 96 hours
Pyrene (129-00-0)		LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): > 2 mg/l 96 hours
Dibenzofuran (132-64-9)		LC50 Fathead minnow (Pimephales promelas): 0.84 - 1.31 mg/l 96 hours
Fluoranthene (206-44-0)		LC50 Winter flounder (Pleuronectes americanus): 0.0001 - 0.0001 mg/l 96 hours
Acenaphthene (83-32-9)		EC50 Water flea (Daphnia magna): 1.102 - 1.475 mg/l 48 hours
		LC50 Brown trout (Salmo trutta): 0.51 - 0.66 mg/l 96 hours
Phenanthrene (85-01-8)		EC50 Water flea (Daphnia magna): 0.185 - 0.243 mg/l 48 hours
		LC50 Sheepshead minnow (Cyprinodon variegatus): 0.438 - 0.523 mg/l 96 hours
Naphthalene (91-20-3)		EC50 Water flea (Daphnia magna): 1.09 - 3.4 mg/l 48 hours
		LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 0.91 - 2.82 mg/l 96 hours
Quinoline (91-22-5)		EC50 Water flea (Daphnia magna): 45.9 - 57.3 mg/l 48 hours
		LC50 Fathead minnow (Pimephales promelas): 0.12 - 1.32 mg/l 96 hours
Ecotoxicity	Toxic to aquatic organisms, may	cause long-term adverse effects in the aquatic environment.
Persistence and	No data available.	

degradability Bioaccumulation /

**Accumulation** 

No data available.

Partition coefficient (n-octanol/water)

Not available.

Mobility in environmental

The product is slightly soluble in water.

media

## 13. Disposal Considerations

Waste codes U051: Waste Creosote

**Disposal instructions** Dispose of this material and its container at hazardous or special waste collection point. Do not

incinerate sealed containers. Do not allow this material to drain into sewers/water supplies.

Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

#### DOT

**Basic shipping requirements:** 

UN number UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Naphthalene RQ = 1203 LBS, Anthracene

RQ = 256237 LBS)

Hazard class 9
Packing group III

**Environmental hazards** 

Marine pollutantYesLabels required9

Additional information:

**Special provisions** 8, 146, 335, IB3, T4, TP1, TP29

Packaging exceptions155Packaging non bulk203Packaging bulk241ERG number171

#### **IATA**

**Basic shipping requirements:** 

UN number 3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Naphthalene, Anthracene)

Hazard class 9
Packing group III
Environmental hazards

Marine pollutant Yes

Additional information:

ERG code 9L

#### **IMDG**

**Basic shipping requirements:** 

UN number 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Naphthalene, Anthracene)

Hazard class 9
Packing group III
Environmental hazards

Marine pollutant Yes EmS No. F-A, S-F

#### **TDG**

**Basic shipping requirements:** 

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Naphthalene, Anthracene)

Hazard class 9
UN number UN3082
Packing group III
Marine pollutant Yes

Additional information:

Special provisions 16

General Read safety instructions, MSDS and emergency procedures before handling.

## 15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

## TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

NAPHTHALENE (CAS 91-20-3)

0.1 % One-Time Export Notification only.

P-XYLENE (CAS 106-42-3)

1.0 % One-Time Export Notification only.

#### US CAA Section 112 Hazardous Air Pollutants (HAPs) List

DIBENZOFURANS (CAS 132-64-9) NAPHTHALENE (CAS 91-20-3)

POLYCYCLIC ORGANIC MATTER (CAS 120-12-7)

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POLYCYCLIC ORGANIC MATTER (CAS 129-00-0)
    POLYCYCLIC ORGANIC MATTER (CAS 193-39-5)
    POLYCYCLIC ORGANIC MATTER (CAS 205-82-3)
    POLYCYCLIC ORGANIC MATTER (CAS 205-99-2)
    POLYCYCLIC ORGANIC MATTER (CAS 206-44-0)
    POLYCYCLIC ORGANIC MATTER (CAS 207-08-9)
    POLYCYCLIC ORGANIC MATTER (CAS 218-01-9)
    POLYCYCLIC ORGANIC MATTER (CAS 50-32-8)
    POLYCYCLIC ORGANIC MATTER (CAS 56-55-3)
    POLYCYCLIC ORGANIC MATTER (CAS 83-32-9)
    POLYCYCLIC ORGANIC MATTER (CAS 85-01-8)
    P-XYLENES (CAS 106-42-3)
    QUINOLINE (CAS 91-22-5)
US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity
    Pyrene (CAS 129-00-0)
US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold planning quantity, lower value
    Pyrene (CAS 129-00-0)
                                                          1000 LBS
US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold planning quantity, upper value
    Pyrene (CAS 129-00-0)
                                                          10000 LBS
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration
    1,10-(1,2-Phenylene)pyrene (CAS 193-39-5)
                                                          0.1 % Substance is not eligible for the de minimis exemption
                                                          except for the purposes of supplier notification requirements.
                                                          1.0 % Substance is not eligible for the de minimis exemption
    1,2-Benzphenanthrene (CAS 218-01-9)
                                                          except for the purposes of supplier notification requirements.
    Anthracene (CAS 120-12-7)
                                                          1.0 %
    Benz[a]anthracene (CAS 56-55-3)
                                                          0.1 % Substance is not eligible for the de minimis exemption
                                                          except for the purposes of supplier notification requirements.
    Benzo[a]pyrene (CAS 50-32-8)
                                                          0.1 % Substance is not eligible for the de minimis exemption
                                                          except for the purposes of supplier notification requirements.
    Benzo[b]fluoranthene (CAS 205-99-2)
                                                          0.1 % Substance is not eligible for the de minimis exemption
                                                          except for the purposes of supplier notification requirements.
    Benzo[j]fluoranthene (CAS 205-82-3)
                                                          0.1 % Substance is not eligible for the de minimis exemption
                                                          except for the purposes of supplier notification requirements.
    Benzo[k]fluoranthene (CAS 207-08-9)
                                                          0.1 % Substance is not eligible for the de minimis exemption
                                                          except for the purposes of supplier notification requirements.
    Creosote (CAS 8001-58-9)
                                                          0.1 %
    Dibenzofuran (CAS 132-64-9)
                                                          1.0 %
    Fluoranthene (CAS 206-44-0)
                                                          1.0 % Substance is not eligible for the de minimis exemption
                                                          except for the purposes of supplier notification requirements.
    Naphthalene (CAS 91-20-3)
                                                          0.1 %
                                                          1.0 %
    Phenanthrene (CAS 85-01-8)
    P-xylene (CAS 106-42-3)
                                                          1.0 %
    Quinoline (CAS 91-22-5)
                                                          1.0 %
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Reportable threshold
    1,10-(1,2-Phenylene)pyrene (CAS 193-39-5)
                                                          100 LBS
    1,2-Benzphenanthrene (CAS 218-01-9)
                                                          100 LBS
    Benz[a]anthracene (CAS 56-55-3)
                                                          100 LBS
    Benzo[a]pyrene (CAS 50-32-8)
                                                          100 LBS
    Benzo[b]fluoranthene (CAS 205-99-2)
                                                          100 LBS
    Benzo[j]fluoranthene (CAS 205-82-3)
                                                          100 LBS
    Benzo[k]fluoranthene (CAS 207-08-9)
                                                          100 LBS
    Fluoranthene (CAS 206-44-0)
                                                          100 LBS
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance
    1,10-(1,2-Phenylene)pyrene (CAS 193-39-5)
                                                          Listed.
    1,2-Benzphenanthrene (CAS 218-01-9)
                                                          Listed.
    Anthracene (CAS 120-12-7)
                                                          Listed.
    Benz[a]anthracene (CAS 56-55-3)
                                                          Listed.
    Benzo[a]pyrene (CAS 50-32-8)
                                                          Listed.
    Benzo[b]fluoranthene (CAS 205-99-2)
                                                          Listed.
    Benzo[j]fluoranthene (CAS 205-82-3)
                                                          Listed.
    Benzo[k]fluoranthene (CAS 207-08-9)
                                                          Listed.
    Creosote (CAS 8001-58-9)
                                                          Listed.
    Dibenzofuran (CAS 132-64-9)
                                                          Listed.
    Fluoranthene (CAS 206-44-0)
                                                          Listed.
```

Naphthalene (CAS 91-20-3)

Phenanthrene (CAS 85-01-8)

P-xylene (CAS 106-42-3)

Quinoline (CAS 91-22-5)

Listed.

Listed.

#### CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Creosote: 1
Naphthalene: 100
Phenanthrene: 5000
Acenaphthene: 100
Fluoranthene: 100
Pyrene: 5000
Dibenzofuran: 100
Anthracene: 5000

1,2-Benzphenanthrene: 100 Benz[a]anthracene: 10 Benzo[b]fluoranthene: 1 Benzo[a]pyrene: 1 Benzo[k]fluoranthene: 5000

Benzo[k]fluoranthene: 5000 1,10-(1,2-Phenylene)pyrene: 100

Quinoline: 5000 P-xylene: 100

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CRF 355, Appendix A)

No

Section 311/312 (40 CFR

370)

Yes

Drug Enforcement

Administration (DEA) (21 CFR

1308.11-15)

Not controlled

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification D2A - Other Toxic Effects-VERY TOXIC

WHMIS labeling



#### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## US - California Hazardous Substances (Director's): Listed substance

1,10-(1,2-Phenylene)pyrene (CAS 193-39-5) 1,2-Benzphenanthrene (CAS 218-01-9) Listed. Acenaphthene (CAS 83-32-9) Listed. Anthracene (CAS 120-12-7) Listed. Benz[a]anthracene (CAS 56-55-3) Listed. Benzo[a]pyrene (CAS 50-32-8) Listed. Benzo[b]fluoranthene (CAS 205-99-2) Listed. Benzo[i]fluoranthene (CAS 205-82-3) Listed. Benzo[k]fluoranthene (CAS 207-08-9) Listed. Creosote (CAS 8001-58-9) Listed. Fluoranthene (CAS 206-44-0) Listed. Naphthalene (CAS 91-20-3) Listed. Phenanthrene (CAS 85-01-8) Listed. P-xvlene (CAS 106-42-3) Listed. Pyrene (CAS 129-00-0) Listed. Quinoline (CAS 91-22-5) Listed.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

1,10-(1,2-Phenylene)pyrene (CAS 193-39-5) Listed. 1,2-Benzphenanthrene (CAS 218-01-9) Listed. Benz[a]anthracene (CAS 56-55-3) Listed. Benzo[a]pyrene (CAS 50-32-8) Listed. Benzo[b]fluoranthene (CAS 205-99-2) Listed. Benzo[j]fluoranthene (CAS 205-82-3) Listed. Benzo[k]fluoranthene (CAS 207-08-9) Listed. Creosote (CAS 8001-58-9) Listed. Naphthalene (CAS 91-20-3) Listed. Quinoline (CAS 91-22-5) Listed.

## US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,10-(1,2-Phenylene)pyrene (CAS 193-39-5) Listed: January 1, 1988 Carcinogenic. Listed: January 1, 1990 Carcinogenic. 1,2-Benzphenanthrene (CAS 218-01-9) Benz[a]anthracene (CAS 56-55-3) Listed: July 1, 1987 Carcinogenic. Benzo[a]pyrene (CAS 50-32-8) Listed: July 1, 1987 Carcinogenic. Benzo[b]fluoranthene (CAS 205-99-2) Listed: July 1, 1987 Carcinogenic. Benzolilfluoranthene (CAS 205-82-3) Listed: July 1, 1987 Carcinogenic. Benzo[k]fluoranthene (CAS 207-08-9) Listed: July 1, 1987 Carcinogenic. Creosote (CAS 8001-58-9) Listed: October 1, 1988 Carcinogenic. Naphthalene (CAS 91-20-3) Listed: April 19, 2002 Carcinogenic. Quinoline (CAS 91-22-5) Listed: October 24, 1997 Carcinogenic.

## **US - Massachusetts RTK - Substance: Listed substance**

1,10-(1,2-Phenylene)pyrene (CAS 193-39-5) Listed. 1,2-Benzphenanthrene (CAS 218-01-9) Listed. Acenaphthene (CAS 83-32-9) Listed. Anthracene (CAS 120-12-7) Listed. Benz[a]anthracene (CAS 56-55-3) Listed. Benzo[a]pyrene (CAS 50-32-8) Listed. Benzo[b]fluoranthene (CAS 205-99-2) Listed. Benzo[j]fluoranthene (CAS 205-82-3) Listed. Benzo[k]fluoranthene (CAS 207-08-9) Listed. Creosote (CAS 8001-58-9) Listed. Dibenzofuran (CAS 132-64-9) Listed. Fluoranthene (CAS 206-44-0) Listed. Naphthalene (CAS 91-20-3) Listed. Phenanthrene (CAS 85-01-8) Listed. P-xylene (CAS 106-42-3) Listed. Pyrene (CAS 129-00-0) Listed. Quinoline (CAS 91-22-5) Listed.

#### US - New Jersey Community RTK (EHS Survey): Reportable threshold

1,10-(1,2-Phenylene)pyrene (CAS 193-39-5)	500 LBS
1,2-Benzphenanthrene (CAS 218-01-9)	500 LBS
Anthracene (CAS 120-12-7)	500 LBS
Benz[a]anthracene (CAS 56-55-3)	500 LBS
Benzo[a]pyrene (CAS 50-32-8)	500 LBS
Benzo[b]fluoranthene (CAS 205-99-2)	500 LBS
Benzo[j]fluoranthene (CAS 205-82-3)	500 LBS
Benzo[k]fluoranthene (CAS 207-08-9)	500 LBS
Creosote (CAS 8001-58-9)	500 LBS
Dibenzofuran (CAS 132-64-9)	500 LBS
Fluoranthene (CAS 206-44-0)	500 LBS
Naphthalene (CAS 91-20-3)	500 LBS
Phenanthrene (CAS 85-01-8)	500 LBS
P-xylene (CAS 106-42-3)	500 LBS
Pyrene (CAS 129-00-0)	500 LBS
Quinoline (CAS 91-22-5)	500 LBS
New Javany DTV Cubetanasa, Listed substance	

#### **US - New Jersey RTK - Substances: Listed substance**

1,10-(1,2-Phenylene)pyrene (CAS 193-39-5) Listed. 1,2-Benzphenanthrene (CAS 218-01-9) Listed. Acenaphthene (CAS 83-32-9) Listed. Anthracene (CAS 120-12-7) Listed. Benz[a]anthracene (CAS 56-55-3) Listed. Benzo[a]pyrene (CAS 50-32-8) Listed. Benzo[b]fluoranthene (CAS 205-99-2) Listed. Benzo[j]fluoranthene (CAS 205-82-3) Listed. Benzo[k]fluoranthene (CAS 207-08-9) Listed. Creosote (CAS 8001-58-9) Listed. Dibenzofuran (CAS 132-64-9) Listed. Fluoranthene (CAS 206-44-0) Listed. Naphthalene (CAS 91-20-3) Listed. Phenanthrene (CAS 85-01-8) Listed. P-xylene (CAS 106-42-3) Listed. Pyrene (CAS 129-00-0) Listed. Quinoline (CAS 91-22-5) Listed.

#### US - Pennsylvania RTK - Hazardous Substances: Listed substance

1,10-(1,2-Phenylene)pyrene (CAS 193-39-5) Listed. 1,2-Benzphenanthrene (CAS 218-01-9) Listed. Acenaphthene (CAS 83-32-9) Listed. Anthracene (CAS 120-12-7) Listed. Benz[a]anthracene (CAS 56-55-3) Listed. Benzo[a]pyrene (CAS 50-32-8) Listed. Benzo[b]fluoranthene (CAS 205-99-2) Listed. Benzo[j]fluoranthene (CAS 205-82-3) Listed. Benzo[k]fluoranthene (CAS 207-08-9) Listed. Creosote (CAS 8001-58-9) Listed. Dibenzofuran (CAS 132-64-9) Listed. Fluoranthene (CAS 206-44-0) Listed. Naphthalene (CAS 91-20-3) Listed. Phenanthrene (CAS 85-01-8) Listed. P-xylene (CAS 106-42-3) Listed. Pyrene (CAS 129-00-0) Listed. Quinoline (CAS 91-22-5) Listed.

## US - Pennsylvania RTK - Hazardous Substances: Special hazard

1,10-(1,2-Phenylene)pyrene (CAS 193-39-5)Special hazard.Benz[a]anthracene (CAS 56-55-3)Special hazard.Benzo[a]pyrene (CAS 50-32-8)Special hazard.Benzo[b]fluoranthene (CAS 205-99-2)Special hazard.Benzo[j]fluoranthene (CAS 205-82-3)Special hazard.Benzo[k]fluoranthene (CAS 207-08-9)Special hazard.Creosote (CAS 8001-58-9)Special hazard.

## **Mexico regulations**

This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

#### 16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

H - Goggles, Gloves, Apron, Vapor Respirator

HMIS® ratings Health: 2\*

Flammability: 1 Physical hazard: 0 Personal protection: H

NFPA ratings Health: 2

Flammability: 1 Instability: 0

**Disclaimer** NOTICE: The information presented herein is based on data considered to be accurate as of the

date of preparation of this Safety Data Sheet (SDS) and was prepared pursuant to Government regulation(s) that identify specific types of information to be provided. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided herein with respect to any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. No responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product. Purchasers and users assume all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Purchasers and users of the product specifically should advise all of their employees, agents, contractors and customers who will use

the product of this (M)SDS.

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