

## Safety Data Sheet

Material Name: PETROLEUM PITCH SOLID

SDS ID: 00234140

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

PETROLEUM PITCH SOLID

**Trade Names**

KP-100, KP-115

**Chemical Family**

Polycyclic aromatic hydrocarbons, petroleum Pitches

**Product Use**

Product uses include Binding Agent, Target Pitch, Impregnation Pitch.

**Restrictions on Use**

None known.

**Details of the supplier of the safety data sheet**

KOPPERS INC.

436 Seventh Avenue

Pittsburgh, PA 15219-1800

Mfg Contact: 412-227-2001 (SDS Requests: 866-852-5239)

CHEMTREC: 800-424-9300 (Outside USA: +1 703-527-3887)

Emergencies: (Medical in USA): 877-737-9047

Emergencies: (Medical Outside of USA): 651-632-9269

E-mail: naorgmsds@koppers.com

### Section 2 - HAZARDS IDENTIFICATION

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Combustible Dust

Skin Sensitization - Category 1

Germ Cell Mutagenicity - Category 1B

Carcinogenicity - Category 1B

Reproductive Toxicity - Category 1B

Hazardous to the Aquatic Environment - Acute - Category 3

Hazardous to the Aquatic Environment - Chronic - Category 4

**GHS Label Elements**

**Symbol(s)**



**Signal Word**

Danger

**Hazard Statement(s)**

May form combustible dust concentrations in air.

May cause an allergic skin reaction.

May cause genetic defects.

May cause cancer.



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May damage fertility or the unborn child.  
Harmful to aquatic life.  
May cause long lasting harmful effects to aquatic life.

### Precautionary Statement(s)

#### Prevention

Avoid breathing dust.  
Contaminated work clothing must not be allowed out of the workplace.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid release to the environment.

#### Response

IF exposed or concerned: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.

#### Storage

Store locked up.

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other Hazards

None known.

### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
68187-58-6	Petroleum pitch	100
-	The above listed complex substance contains the following constituents	-
85-01-8	Phenanthrene	0.034-0.71
129-00-0	Pyrene	0.34-0.68
120-12-7	Anthracene	0.12-0.49
206-44-0	Fluoranthene	0.16-0.49
83-32-9	Acenaphthene	0.00-0.45
218-01-9	Chrysene	0.18-0.42
86-73-7	Fluorene	0.16-0.29
56-55-3	Benz[a]anthracene	0.12-0.25
50-32-8	Benzo[a]pyrene	0.00-0.20



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91-20-3	Naphthalene	0.00-0.11
53-70-3	Dibenzo(a,h)anthracene	0.00-0.10
205-99-2	Benzo(b)fluoranthene	0.00-0.08
207-08-9	Benzo(k)fluoranthene	0.00-0.05
205-82-3	Benzo(j)fluoranthene	0.00-0.05
208-96-8	Acenaphthylene	0.00-0.04

### Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Aromatic hydrocarbons, polycyclic (130489-29-2).

### Section 4 - FIRST AID MEASURES

#### Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

#### Skin

Wash all affected skin areas with warm soapy water. Skin contact causes photosensitization which can last for 36-72 hours after exposure. Keep out of direct sunlight for the next two to three days to avoid sunburn to the photosensitized skin areas. Use a broad spectrum blockout cream to protect against UV alpha ray exposure. Get medical attention, if needed.

#### Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.

#### Ingestion

Not a likely route of exposure. Rinse mouth. Do NOT induce vomiting. If a large amount is swallowed, get medical attention. Do not give anything by mouth to unconscious or convulsive person. If vomiting occurs, keep head lower than hips to help prevent aspiration.

### Most Important Symptoms/Effects

#### Acute

allergic reactions

#### Delayed

allergic reactions, mutagenic effects, Reproductive Effects, skin cancer

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

Treat symptomatically and supportively.

### Section 5 - FIRE FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

regular dry chemical, carbon dioxide, regular foam, water spray

##### Unsuitable Extinguishing Media

Do not use high-pressure water streams.

### Special Hazards Arising from the Chemical



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Dust/air mixtures may ignite or explode. During fire conditions, vapors and decomposition products may be released, forming toxic and/or flammable/explosive mixtures in air. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

### **Hazardous Combustion Products**

Carbon monoxide, carbon dioxide, oxides of nitrogen, oxides of sulfur, polynuclear aromatic hydrocarbons

### **Fire Fighting Measures**

Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Use extinguishing agents appropriate for surrounding fire. Flood with fine water spray. Directly spraying water or foam onto hot burning product may cause frothing. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. When the solid material is heated (as in a fire) it will melt and begin to flow. The molten material may be chilled and solidified using a water fog or fine water spray.

### **Special Protective Equipment and Precautions for Firefighters**

Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

## **Section 6 - ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

### **Methods and Materials for Containment and Cleaning Up**

Stop leak if possible without personal risk. Shovel solidified material into containers for recycle if clean or disposal if contaminated. The solid or solidified spillage should be cleaned up as quickly as possible. Spilled material in a traffic area will break down with mechanical contact (e.g. vehicle tires) and become a wind borne dust. Solid material spillage may be wet down with a fine water spray to suppress dust during cleanup. If sweeping of a contaminated area is necessary, use a dust suppressant agent. Collect spill using a vacuum cleaner with a HEPA filter or wet and scoop up dry spills. Avoid sweeping spilled dry material. Eliminate ignition sources including sources of electrical, static or frictional sparks. Collect spilled material in appropriate container for disposal. In Canada, report releases to provincial authorities, municipal authorities, or both, as required. Due to the concentration of Benzo(a)pyrene and the CERCLA (40 CFR 302.4) reportable quantity of 1 pound, the release of 500 pounds (50.8 gallons) of this product requires National Response Center notification. See Section 13 for waste disposal information.

## **Section 7 - HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Avoid breathing dust. Avoid contact with eyes, skin and clothing. When using, do not eat, drink or smoke. Wear protective gloves/clothing and eye/face protection. Wash exposed areas thoroughly with soap and water, or a waterless hand cleaner, after skin contact and before eating, drinking, using tobacco products, or restrooms. Use protective skin cream on exposed skin before and during work shift. To reduce sun sensitivity a sun-blocking lotion can also be applied prior to application of a protective cream. Contaminated clothing should be removed and laundered before reuse. Contaminated work clothing should not be allowed out of the workplace unless laundered or decontaminated. After working with the product use warm soapy water and a wash cloth to thoroughly wash all areas of skin that have been contacted with product. After washing, apply a broad spectrum UV blockout cream on exposed skin areas before going into sunlight. Keep out of strong sunlight for two to three days after being affected by the product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use methods to minimize dust. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions.

### **Conditions for Safe Storage, Including any Incompatibilities**

Store locked up.



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Store and handle in accordance with all current regulations and standards. Label all containers. Store in metal containers. Avoid use of plastic containers. Keep in a well-ventilated place. Keep away from heat, sparks and naked flames. Protect from physical damage. Notify State Emergency Response Commission for storage or use at amounts greater than or equal to the TPQ (U.S. EPA SARA Section 302). SARA Section 303 requires facilities storing a material with a TPQ to participate in local emergency response planning (U.S. EPA 40 CFR 355 Part B). Keep separated from incompatible substances.

### Incompatible Materials

oxidizing materials, nitrates, chlorates, peroxides

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

<b>Petroleum pitch</b>	<b>68187-58-6</b>
ACGIH:	0.2 mg/m <sup>3</sup> TWA as benzene-soluble aerosol (related to Pitch, coal tar, high-temperature)
OSHA (US):	0.2 mg/m <sup>3</sup> TWA (benzene soluble fraction ) (related to Pitch, coal tar, high-temperature)
<b>Naphthalene</b>	<b>91-20-3</b>
ACGIH:	10 ppm TWA
	Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA (US):	10 ppm TWA ; 50 mg/m <sup>3</sup> TWA

### ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

#### Petroleum pitch (68187-58-6)

2.5 µg/l Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (background ); Medium: urine Time: end of shift at end of workweek Parameter: 3-Hydroxybenzo(a)pyrene with hydrolysis (nonquantitative ) (related to Polycyclic aromatic hydrocarbons)

### Engineering Controls

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust or process enclosure ventilation system. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Ensure compliance with applicable exposure limits.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

ANSI Z87.1-1989 approved safety glasses with side shields. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. At elevated temperatures: A face shield is recommended.

#### Skin Protection

Wear protective clothing to prevent contact. Wear long sleeved shirt or overalls fastened at wrists and neck, with long legged trousers with trouser legs worn outside over boot tops, boots, socks, and safety hat plus gloves. Use protective skin cream on exposed skin before and during work shift. Protective clothing must be changed when it shows signs of contamination. Remove and launder contaminated clothing separately from other laundry before reuse. When material is at an elevated temperature, wear appropriate heat resistant clothing.

#### Respiratory Protection

If the applicable TLVs and/or PELs are exceeded, use NIOSH-approved multipurpose air-purifying cartridge respirators, for organic vapors and P-100 particulate. Use a positive-pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known, or any other circumstance where air-purifying respirators may not provide adequate protection.



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### Glove Recommendations

Wear appropriate gloves. When material is at an elevated temperature, wear appropriate heat resistant gloves.

### Protective Materials

Recommended materials include: protective skin cream, chemical resistant material, and heat resistant material.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	black solid	<b>Physical State</b>	solid
<b>Odor</b>	tar odor	<b>Color</b>	black
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	80 - 130 °C	<b>Boiling Point</b>	>290 °C
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Not flammable
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	>260 °C
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	18 mmHg @ 23 °C
<b>Vapor Density (air=1)</b>	>1	<b>Specific Gravity (water=1)</b>	>1.18
<b>Water Solubility</b>	(Insoluble )	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Kinematic viscosity</b>	Not available
<b>Solubility (Other)</b>	Not available	<b>Density</b>	Not available
<b>Physical Form</b>	changes from solid to liquid as temperature increases	<b>Softening Point</b>	80 - 130 °C
<b>Molecular Weight</b>	Not available	<b>OSHA Flammability Category</b>	4

### Other Information

None known

### Section 10 - STABILITY AND REACTIVITY

#### Reactivity

No reactivity hazard is expected.

#### Chemical Stability

Stable at normal temperatures and pressure.

#### Possibility of Hazardous Reactions



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Will not polymerize.

### Conditions to Avoid

Avoid accumulation of airborne dusts. Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.

### Incompatible Materials

oxidizing materials, nitrates, chlorates, peroxides

### Hazardous decomposition products

carbon monoxide, carbon dioxide, oxides of nitrogen, oxides of sulfur, polynuclear aromatic hydrocarbons

## Section 11 - TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Inhalation

No information on significant adverse effects.

#### Skin Contact

allergic reactions, sensitivity to sunlight, skin cancer

#### Eye Contact

sensitivity to sunlight

#### Ingestion

Reproductive Effects

### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

#### Petroleum pitch (68187-58-6)

Oral LD50 Rat 4320 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

### Product Toxicity Data

#### Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Inhalation - Dust and Mist	> 5 mg/L
Oral	> 2000 mg/kg

#### Immediate Effects

allergic reactions

#### Delayed Effects

allergic reactions, mutagenic effects, Reproductive Effects, skin cancer

#### Irritation/Corrosivity Data

Erythema/eschar score: 0, Oedema score: 0

#### Respiratory Sensitization

No evidence that the material can lead to respiratory hypersensitivity.

#### Dermal Sensitization

Component data indicate the substance may cause an allergic reaction. May cause photosensitivity.



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### Component Carcinogenicity

Petroleum pitch	68187-58-6
ACGIH:	A1 - Confirmed Human Carcinogen (related to Pitch, coal tar, high-temperature)
IARC:	Monograph 100F [2012] ; Supplement 7 [1987] ; Monograph 35 [1985] (related to Pitch, coal tar, high-temperature) (Group 1 (carcinogenic to humans))
NTP:	Known Human Carcinogen (related to Pitch, coal tar, high-temperature)
DFG:	Category 1 (causes cancer in man ) (related to Pitch, coal tar, high-temperature)
OSHA:	Present (related to Pitch, coal tar, high-temperature)
NIOSH:	potential occupational carcinogen (related to Pitch, coal tar, high-temperature)

May cause cancer.

### Germ Cell Mutagenicity

Available data characterizes this substance as mutagenic. Bacterial Reverse Mutation Test – positive.

### Tumorigenic Data

No data available

### Reproductive Toxicity

Available data characterizes this substance as a reproductive hazard.

### Specific Target Organ Toxicity - Single Exposure

No data available.

### Specific Target Organ Toxicity - Repeated Exposure

NOAEL: 200-250 mg/kg Oral Mouse

### Aspiration hazard

No data available.

### Medical Conditions Aggravated by Exposure

respiratory disorders, skin disorders, eye disorders

### Additional Data

After prolonged and repeated exposure, petroleum pitch produced carcinogenic activity in mice lifetime skin painting studies. Petroleum pitch was positive when tested in a modified Ames mutagenicity assay. IARC determined there is sufficient evidence for carcinogenicity in experimental animals of light and heavy vacuum distillates, of light and heavy catalytically cracked distillates and of cracked residues (including heavy thermocracked distillates/residues) from the refining of crude oil. In addition to containing information about the product as a whole, this data sheet also contains information about individual components of the product. Information of this nature may not have been derived from studies or data relating to this product and/or may have been derived from studies or data that did not involve human exposure and involved animal exposure only. Some polycyclic aromatic hydrocarbons (PAHs), found in coal tar complex substances, have been reported to cause lung and skin cancer in humans under conditions of poor personal hygiene, prolonged/repeated contact, and exposure to sunlight. The National Toxicology Program (NTP) and IARC have independently classified various PAH compounds present in coal tar substances as reasonably anticipated to be human carcinogens (NTP), probably carcinogenic to humans (IARC Group 2A), possibly carcinogenic to humans (IARC Group 2B), and not classifiable as to carcinogenicity to humans (IARC Group 3). The cancers reported in the studies upon which IARC based its conclusions involved lung, skin, liver, stomach, kidney and blood cancers in animals. Based on the results of animal





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experiments PAHs may cause injury to the liver, kidneys, lungs, blood and lymph systems. Some PAH's have also been associated with impaired fertility, heritable genetic damage and birth defects in mice.

### Section 12 - ECOLOGICAL INFORMATION

#### Ecotoxicity

Harmful to aquatic life. May cause long-term adverse effects in the aquatic environment.

#### Component Analysis - Aquatic Toxicity

Petroleum pitch	68187-58-6
Fish:	LC50 96 h Brachydanio rerio 48 mg/L [semi-static ]

#### Invertebrate Toxicity

EL50 48 hour(s) >1000 mg/L Daphnia magna.

#### Algal Toxicity

EL50 72 hour(s) >100 mg/L Scenedesmus subspicatus. NOELR 72 hour(s) 100 mg/L Scenedesmus subspicatus.

#### Persistence and Degradability

This substance is not expected to biodegrade. Insoluble in water.

#### Bioaccumulative Potential

The product is not expected to accumulate in the environment. Insoluble in water.

#### Mobility

Insoluble in water.

#### Other Toxicity

No data available.

### Section 13 - DISPOSAL CONSIDERATIONS

#### Disposal Methods

Dispose in accordance with all applicable regulations.

#### Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

### Section 14 - TRANSPORT INFORMATION

#### US DOT Information:

No Classification assigned.

#### International Bulk Chemical Code

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

#### Further information

This material is classified as an oil under 49 CFR Part 130 when transported in a container of 3,500 gallon capacity or greater. See 49 CFR Part 130 for oil spill prevention and response plan requirements for truck and rail shipments. Component Marine Pollutants. This material does not contain any chemicals listed on the Hazardous Materials Table required by US DOT to be identified as a marine pollutant.

### Section 15 - REGULATORY INFORMATION

#### U.S. Federal Regulations



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This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<b>Phenanthrene</b>	<b>85-01-8</b>
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
<b>Pyrene</b>	<b>129-00-0</b>
SARA 302:	1000 lb lower TPQ ; 10000 lb upper TPQ
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
SARA 304:	5000 lb EPCRA RQ
<b>Anthracene</b>	<b>120-12-7</b>
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
<b>Fluoranthene</b>	<b>206-44-0</b>
SARA 313:	1 % Supplier notification limit
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
<b>Acenaphthene</b>	<b>83-32-9</b>
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
<b>Chrysene</b>	<b>218-01-9</b>
SARA 313:	1 % Supplier notification limit
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
<b>Fluorene</b>	<b>86-73-7</b>
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
<b>Benz[a]anthracene</b>	<b>56-55-3</b>
SARA 313:	0.1 % Supplier notification limit
CERCLA:	10 lb final RQ ; 4.54 kg final RQ
<b>Benzo[a]pyrene</b>	<b>50-32-8</b>
SARA 313:	0.1 % Supplier notification limit
CERCLA:	1 lb final RQ ; 0.454 kg final RQ



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<b>Naphthalene</b>	<b>91-20-3</b>
SARA 313:	0.1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
<b>Dibenzo(a,h)anthracene</b>	<b>53-70-3</b>
SARA 313:	0.1 % Supplier notification limit
CERCLA:	1 lb final RQ ; 0.454 kg final RQ
<b>Benzo(b)fluoranthene</b>	<b>205-99-2</b>
SARA 313:	0.1 % Supplier notification limit
CERCLA:	1 lb final RQ ; 0.454 kg final RQ
<b>Benzo(k)fluoranthene</b>	<b>207-08-9</b>
SARA 313:	0.1 % Supplier notification limit
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
<b>Benzo(j)fluoranthene</b>	<b>205-82-3</b>
SARA 313:	0.1 % Supplier notification limit
<b>Acenaphthylene</b>	<b>208-96-8</b>
CERCLA:	5000 lb final RQ ; 2270 kg final RQ

**SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories**

Combustible Dust; Carcinogenicity; Reproductive Toxicity; Respiratory/Skin Sensitization; Germ Cell Mutagenicity

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
<b>Petroleum pitch</b>	<b>68187-58-6</b>	Yes	Yes	Yes	Yes	Yes

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**



**WARNING**

This product can expose you to chemicals including Naphthalene , which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

<b>Naphthalene</b>	<b>91-20-3</b>
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Carc:	carcinogen , 4/19/2002
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### Canada Regulations

#### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

<b>Petroleum pitch</b>	<b>68187-58-6</b>
	0.1 % (related to Pitch, coal tar, high-temperature)

### Component Analysis - Inventory

#### Petroleum pitch (68187-58-6)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	Yes

#### Phenanthrene (85-01-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

#### Pyrene (129-00-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

#### Anthracene (120-12-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI -	KR KECI -	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)



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							Annex 1	Annex 2						
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Fluoranthene (206-44-0)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	NSL	EIN	Yes	No	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes

**Acenaphthene (83-32-9)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes

**Chrysene (218-01-9)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	No	No	No	Yes	No	No	No	Yes	No	Yes	Yes

**Fluorene (86-73-7)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes

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



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US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	NSL	EIN	No	No	No	No	No	No	No	Yes	Yes	No	Yes	Yes

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

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	No	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Naphthalene (91-20-3)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Dibenzo(a,h)anthracene (53-70-3)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	NSL	EIN	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes

**Benzo(b)fluoranthene (205-99-2)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
No	No	EIN	No	No	No	No	No	No	No	No	Yes	No	Yes	Yes

**Benzo(k)fluoranthene (207-08-9)**



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US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
No	No	EIN	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes

**Benzo(j)fluoranthene (205-82-3)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
No	No	EIN	No	No	No	No	No	No	No	No	No	No	Yes	Yes

**Acenaphthylene (208-96-8)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	NSL	EIN	No	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	Yes

**U.S. Inventory (TSCA)**

Listed on inventory.

**Section 16 - OTHER INFORMATION**

**Summary of Changes**

Updated: 7/19/2018; MSDS SUMMARY OF CHANGES: SECTION 15 - CA Proposition 65

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK



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- Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

### **Other Information**

#### **Disclaimer:**

The information set forth in this Safety Data Sheet does not purport to be all-inclusive and should be used only as a guide. While the information and recommendations set forth herein are believed to be accurate, the company makes no warranty regarding such information and recommendations and disclaims all liability from reliance thereon.