Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
COAL TAR DISTILLATE

Synonyms
HEAVY OIL; MIDDLE OIL; FUEL OIL; CARBON BLACK FEED STOCK OIL; CARBON BLACK OIL

Chemical Family
Hydrocarbons, coal-tar

Product Use
process chemical; Solvent; Fuel

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.
Serious Eye Damage/Eye Irritation - Category 2A
Skin Sensitization - Category 1
Germ Cell Mutagenicity - Category 2
Carcinogenicity - Category 1B
Reproductive Toxicity - Category 2
Specific target organ toxicity - Single exposure - Category 1 (blood)
Specific target organ toxicity - Single exposure - Category 2 (eyes)
Specific Target Organ Toxicity - Repeated Exposure - Category 1 (blood, eyes, respiratory system)
Hazardous to the Aquatic Environment - Acute - Category 1
Hazardous to the Aquatic Environment - Chronic - Category 1

GHS Label Elements

Symbol(s)

Signal Word
Danger

Hazard Statement(s)
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing genetic defects.
May cause cancer.
Suspected of damaging fertility or the unborn child.
Causes damage to organs.
May cause damage to organs.
Causes damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

Prevention
Do not breathe vapor or mist.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
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.
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.
Collect spillage.

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

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>65996-92-1</td>
<td>Coal tar distillate</td>
<td>100</td>
</tr>
<tr>
<td>Not Available</td>
<td>The above listed complex substance contains the following constituents</td>
<td>-</td>
</tr>
<tr>
<td>85-01-8</td>
<td>Phenanthrene</td>
<td>3.1-23.6</td>
</tr>
<tr>
<td>206-44-0</td>
<td>Fluoranthene</td>
<td>1.3-22.1</td>
</tr>
<tr>
<td>129-00-0</td>
<td>Pyrene</td>
<td>9.9-18.2</td>
</tr>
</tbody>
</table>
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 with plenty of soap and water. If irritation persists, get medical attention.

**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**
Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Do not give anything by mouth to unconscious or convulsive person. Get medical attention.

**Most Important Symptoms/Effects**

**Acute**
mild skin irritation, eye irritation, allergic reactions, blood damage, eye damage

**Delayed**
allergic reactions, mutagenic effects, reproductive effects, blood damage, eye damage, respiratory system damage, lung cancer, 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**
high-pressure water streams

**Hazardous Combustion Products**
oxides of carbon

**Advice for firefighters**
Slight fire hazard. Contact with heat may generate toxic and/or flammable gases. Containers may rupture or explode if exposed to heat.

**Fire Fighting Measures**
Avoid inhalation of material or combustion by-products. Move container from fire area if it can be done without risk. 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.

**Special Protective Equipment and Precautions for Firefighters**
Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

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**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**
Eliminate all ignition sources if safe to do so. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Absorb with sand or other non-combustible material. 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(b)fluoranthene and the CERCLA (40 CFR 302.4) reportable quantity of 1 pound, the release of 62 pounds (7 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
Do not breathe vapor or mist. Avoid repeated or prolonged breathing of vapor, mist or fume. Use only with adequate ventilation. Avoid prolonged or repeated contact with skin or eyes. Wear protective gloves/clothing and eye/face protection. Do not eat, drink, or smoke when using this product. 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. 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 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.

Conditions for Safe Storage, Including any Incompatibilities
Store locked up.
Store and handle in accordance with all current regulations and standards. Keep in a closed, properly labeled container in a cool (shaded), dry, well-ventilated area. 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

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH:</th>
<th>OSHA (US):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal tar distillate</td>
<td>65996-92-1 0.2 mg/m3 TWA as benzene-soluble aerosol (related to Pitch, coal tar, high-temperature)</td>
<td>0.2 mg/m3 TWA (benzene soluble fraction ) (related to Pitch, coal tar, high-temperature)</td>
</tr>
<tr>
<td>Phenanthrene</td>
<td>85-01-8 0.2 mg/m3 TWA</td>
<td></td>
</tr>
<tr>
<td>Pyrene</td>
<td>129-00-0 0.2 mg/m3 TWA</td>
<td></td>
</tr>
<tr>
<td>Anthracene</td>
<td>120-12-7 0.2 mg/m3 TWA</td>
<td></td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3 10 ppm TWA</td>
<td></td>
</tr>
</tbody>
</table>

Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA (US): 10 ppm TWA ; 50 mg/m3 TWA

**Biphenyl** 92-52-4

ACGIH: 0.2 ppm TWA

OSHA (US): 0.2 ppm TWA ; 1 mg/m3 TWA

2-Methylnaphthalene 91-57-6

ACGIH: 0.5 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

1-Methylnaphthalene 90-12-0

ACGIH: 0.5 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

O-CRESOL 95-48-7

ACGIH: 20 mg/m3 TWA inhalable fraction and vapor

Skin - potential significant contribution to overall exposure by the cutaneous route

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

**Coal tar distillate (65996-92-1)**
Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative) (related to Pitch, coal tar, high-temperature)

**Naphthalene (91-20-3)**
Time: end of shift Parameter: 1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis (nonquantitative, nonspecific)

**Engineering Controls**
Provide local exhaust or process enclosure ventilation system. 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.

**Skin Protection**
Wear protective clothing to prevent contact. Use protective skin cream on exposed skin before and during work shift. Remove any chemical soaked clothing immediately.

**Respiratory Protection**
If the applicable TLVs and/or PELs are exceeded, use canister or cartridge respirators, which are MSHA/NIOSH-approved, with organic vapor cartridges.

**Glove Recommendations**
Wear appropriate gloves.

**Protective Materials**
protective skin cream, chemical resistant material
### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>brown to black</td>
</tr>
<tr>
<td><strong>Physical State</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>coal tar odor</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>brown to black</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
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<tr>
<td><strong>Melting Point</strong></td>
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<tr>
<td><strong>Boiling Point</strong></td>
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</tr>
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<td><strong>Boiling Point Range</strong></td>
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<tr>
<td><strong>Freezing Point</strong></td>
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</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>Not available</td>
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<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Autoignition Temperature</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>&gt;320 °F</td>
</tr>
<tr>
<td><strong>Lower Explosive Limit</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not available</td>
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<tr>
<td><strong>Upper Explosive Limit</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
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</tr>
<tr>
<td><strong>Vapor Density (air=1)</strong></td>
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<tr>
<td><strong>Specific Gravity (water=1)</strong></td>
<td>&gt;1.05</td>
</tr>
<tr>
<td><strong>Water Solubility</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not available</td>
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<tr>
<td><strong>Viscosity</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Kinematic viscosity</strong></td>
<td>Not available</td>
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<tr>
<td><strong>Solubility (Other)</strong></td>
<td>Not available</td>
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<tr>
<td><strong>Density</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Physical Form</strong></td>
<td>Liquid</td>
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<tr>
<td><strong>Molecular Weight</strong></td>
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</tr>
<tr>
<td><strong>OSHA Flammability Category</strong></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Other Information**

No additional information is available.

### Section 10 - STABILITY AND REACTIVITY

**Reactivity**

No reactivity hazard is expected.

**Chemical Stability**

Stable at normal temperatures and pressure.

**Possibility of Hazardous Reactions**

Will not polymerize.

**Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**Incompatible Materials**

oxidizing materials
Hazardous decomposition products
oxides of carbon

**Section 11 - TOXICOLOGICAL INFORMATION**

**Information on Likely Routes of Exposure**

**Inhalation**
blood damage, eye damage, respiratory system damage

**Skin Contact**
mild irritation, allergic reactions, lung cancer, skin cancer

**Eye Contact**
irritation, eye damage

**Ingestion**
blood damage, eye damage, 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:

**Coal tar distillate (65996-92-1)**
Oral LD50 Rat 3300 mg/kg (related to Pitch, coal tar, high-temperature)
Dermal LD50 Rat >5000 mg/kg (no deaths occurred) (related to Pitch, coal tar, high-temperature)

**Product Toxicity Data**

**Acute Toxicity Estimate**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>&gt;15000 mg/kg</td>
</tr>
</tbody>
</table>

**Immediate Effects**
mild skin irritation, eye irritation, allergic reactions, blood damage, eye damage

**Delayed Effects**
allergic reactions, mutagenic effects, reproductive effects, blood damage, eye damage, respiratory system damage, lung cancer, skin cancer

**Irritation/Corrosivity Data**
mild skin irritation, eye irritation

**Respiratory Sensitization**
No data available.

**Dermal Sensitization**
Component data indicate the substance is sensitizing.

**Component Carcinogenicity**

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal tar distillate</td>
<td>65996-92-1 (ACGIH: A1 - Confirmed Human Carcinogen (related to Pitch, coal tar, high-temperature))</td>
</tr>
</tbody>
</table>
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)

NIOSH: potential occupational carcinogen (related to Pitch, coal tar, high-temperature)

Germ Cell Mutagenicity
Available data characterizes this substance as mutagenic.

Tumorigenic Data
No data available.

Reproductive Toxicity
Available data characterizes this substance as a reproductive hazard.

Specific Target Organ Toxicity - Single Exposure
blood, eyes

Specific Target Organ Toxicity - Repeated Exposure
blood, eyes, respiratory system

Aspiration hazard
No data available.

Medical Conditions Aggravated by Exposure
respiratory disorders, skin disorders, central nervous system disorders (i.e. headache, drowsiness, dizziness, loss of coordination) metabolic disorders

Additional Data
Product: This product is compositionally similar to creosote. IARC monograph (Vol. 35) states that there is sufficient evidence for carcinogenicity in experimental animals of coal-tars, creosotes, creosote oils, anthracene oils, and coal-tar pitches. Skin tumors and lung tumors were observed after skin application in animals. There is limited evidence that coal-tar-derived creosotes are carcinogenic in humans. Taken together, IARC concluded that the data indicate that coal-tars are causally associated with cancer in humans and that creosotes derived from coal-tars are probably carcinogenic in humans (IARC Group 2A). 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. Component: 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 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
Very toxic to aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity
Safety Data Sheet

Material Name: COAL TAR DISTILLATE

<table>
<thead>
<tr>
<th>Material Name</th>
<th>CAS Number</th>
<th>Fish:</th>
<th>Invertebrate:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthracene</td>
<td>120-12-7</td>
<td>LC50 96 h Lepomis macrochirus 0 - 0.00318 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 0.00278 mg/L [static ]</td>
<td>EC50 48 h Daphnia magna 0.081 - 0.112 mg/L EPA</td>
</tr>
<tr>
<td>Benz[a]anthracene</td>
<td>56-55-3</td>
<td></td>
<td>EC50 48 h Daphnia magna 0.0042 mg/L EPA</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>LC50 96 h Pimephales promelas 5.74 - 6.44 mg/L [flow-through ]; LC50 96 h Oncorhynchus mykiss 1.6 mg/L [flow-through ]; LC50 96 h Oncorhynchus mykiss 0.91 - 2.82 mg/L [static ]; LC50 96 h Pimephales promelas 1.99 mg/L [static ]; LC50 96 h Lepomis macrochirus 31.0265 mg/L [static ]</td>
<td>LC50 48 h Daphnia magna 2.16 mg/L IUCLID ; EC50 48 h Daphnia magna 1.96 mg/L [Flow through ] EPA ; EC50 48 h Daphnia magna 1.09 - 3.4 mg/L [Static ] EPA</td>
</tr>
<tr>
<td>Acenaphthene</td>
<td>83-32-9</td>
<td>LC50 96 h Pimephales promelas 0.509 mg/L [flow-through ]; LC50 96 h Oncorhynchus mykiss 0.6 - 0.75 mg/L [flow-through ]; LC50 96 h Lepomis macrochirus 1.3 - 2.1 mg/L [static ]</td>
<td>EC50 48 h Pseudokirchneriella subcapitata 0.23 - 1.15 mg/L EPA</td>
</tr>
<tr>
<td>Algae:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Invertebrate:</td>
<td></td>
<td></td>
<td>EC50 48 h Daphnia magna 41 mg/L IUCLID ; EC50 48 h Daphnia magna 3.45 mg/L IUCLID ; EC50 48 h Daphnia magna 1.102 - 1.475 mg/L [Static ] EPA</td>
</tr>
</tbody>
</table>

Persistence and Degradability
No data available.

Bioaccumulative Potential
No data available.

Mobility
No data available.

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:
Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Contains:
Material Name: COAL TAR DISTILLATE

SDS ID: 00228311

BENZO(A)ANTHRACENE , BENZO(B)FLUORANTHENE

Hazard Class: 9
UN/NA #: UN3082
Packing Group: III
Required Label(s): 9

Further information: 'Environmentally hazardous substances, liquid, n.o.s.' applies for all container sizes.

IATA Information:

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , ( Contains: BENZO(A)ANTHRACENE , BENZO(B)FLUORANTHENE )
Hazard Class: 9
UN#: UN3082
Packing Group: III
Required Label(s): 9

Further information: Passenger & Cargo Aircraft - Ltd. Qty. - (Packing Instruction / Max. Net Qty. per Pkg.): Y964 / 30 kg G Passenger & Cargo Aircraft (Packing Instruction / Max. Net Qty. per Pkg.): 964 / 450 L Cargo Aircraft Only (Packing Instruction / Max. Net Qty. per Pkg.): 964 / 450 L Special Provisions: A97, A158ERG Code: 9L

TDG Information:

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , ( Contains: BENZO(A)ANTHRACENE , BENZO(B)FLUORANTHENE )
Hazard Class: 9
UN#: UN3082
Packing Group: III
Required Label(s): 9

Further information: 'Environmentally hazardous substances, liquid, n.o.s.' applies for all container sizes.

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
STCC Code: 2814137; HAZ STCC Code: TBA US DOT Reportable Quantities: BENZO(B)FLUORANTHENE (205-99-2) 1 lbs RQ; 0.454 kg RQ

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
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.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal tar distillate</td>
<td>65996-92-1</td>
</tr>
<tr>
<td>TSCA 12b:</td>
<td>Section 4, 1 % de minimus concentration</td>
</tr>
<tr>
<td>Phenanthrene</td>
<td>85-01-8</td>
</tr>
<tr>
<td>SARA 313:</td>
<td>1 % de minimis concentration</td>
</tr>
<tr>
<td>CERCLA:</td>
<td>5000 lb final RQ ; 2270 kg final RQ</td>
</tr>
<tr>
<td>Fluoranthene</td>
<td>206-44-0</td>
</tr>
<tr>
<td>Material</td>
<td>CAS Number</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Pyrene</td>
<td>129-00-0</td>
</tr>
<tr>
<td>Anthracene</td>
<td>120-12-7</td>
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<tr>
<td>Chrysene</td>
<td>218-01-9</td>
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<tr>
<td>Benzo[a]anthracene</td>
<td>56-55-3</td>
</tr>
<tr>
<td>Benzo(k)fluoranthene</td>
<td>207-08-9</td>
</tr>
<tr>
<td>Benzo(b)fluoranthene</td>
<td>205-99-2</td>
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<tr>
<td>Fluorene</td>
<td>86-73-7</td>
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<tr>
<td>Acenaphthylene</td>
<td>208-96-8</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Material Name: COAL TAR DISTILLATE

CERCLA: 100 lb final RQ ; 45.4 kg final RQ

Biphenyl 92-52-4

SARA 313: 1 % de minimis concentration

CERCLA: 100 lb final RQ ; 45.4 kg final RQ

Acenaphthene 83-32-9

CERCLA: 100 lb final RQ ; 45.4 kg final RQ

O-CRESOL 95-48-7

SARA 302: 1000 lb lower TPQ ; 10000 lb upper TPQ

SARA 313: 1 % de minimis concentration

CERCLA: 100 lb final RQ ; 45.4 kg final RQ

SARA 304: 100 lb EPCRA RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories
Carcinogenicity; Reproductive Toxicity; Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Germ Cell Mutagenicity

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
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<td>65996-92-1</td>
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California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

WARNING

This product can expose you to chemicals including Chrysene, Benz[a]anthracene, 9H-Carbazole, Benzo(k)fluoranthene, Benzo(b)fluoranthene, Naphthalene , which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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.

<table>
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<tr>
<th>Component</th>
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<tr>
<td>Coal tar distillate</td>
<td>65996-92-1</td>
</tr>
<tr>
<td></td>
<td>0.1 % (related to Pitch, coal tar, high-temperature)</td>
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**Material Name:** COAL TAR DISTILLATE  

**Phenanthrene**  
85-01-8  
1 %

**Fluoranthene**  
206-44-0  
1 %

**Pyrene**  
129-00-0  
1 %

**Anthracene**  
120-12-7  
1 %

**Chrysene**  
218-01-9  
0.1 %

**Benz[a]anthracene**  
56-55-3  
0.1 %

**Benzo(b)fluoranthene**  
205-99-2  
0.1 %

**Naphthalene**  
91-20-3  
1 %

**WHMIS Classification**  
D2A, D2B

**Component Analysis - Inventory**  
Coal tar distillate (65996-92-1)

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The above listed complex substance contains the following constituents (Not Available)
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### Safety Data Sheet

**Material Name:** COAL TAR DISTILLATE

**SDS ID:** 00228311

---

#### Annex 1

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

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#### Benzo(k)fluoranthe (207-08-9)

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#### Fluorene (86-73-7)

|----|----|----|----|----|----------|----------|------------------|------------------|-----------------|----|----|----|----|------------|

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Issue date: 2018-08-20  
Revision 4.3  
Print date: 2018-08-20
### Safety Data Sheet

**Material Name:** COAL TAR DISTILLATE  
**SDS ID:** 00228311

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#### Acenaphthylene (208-96-8)

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#### Benzo[c]phenanthrene (195-19-7)

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#### Naphthalene (91-20-3)

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Page 17 of 20  
Issue date: 2018-08-20  
Revision 4.3  
Print date: 2018-08-20
### Benzo(e)pyrene (192-97-2)

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### 2-Methylnaphthalene (91-57-6)

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### 4H-Cyclopenta[def]phenanthrene (203-64-5)

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### 1-Methylnaphthalene (90-12-0)

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# Safety Data Sheet

**Material Name:** COAL TAR DISTILLATE  
**SDS ID:** 00228311

## Acenaphthene (83-32-9)

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Section 16 - OTHER INFORMATION

NFPA Ratings
Health: 2 Fire: 1 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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 - 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.