



# Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol

**Preparation Date** No data available

**Revision Date** 16-Apr-2007

**Revision Number** 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Black-Stallion™ CTP  
**Product Code** 8345  
**UN-No** UN3077

**Contact Manufacturer**  
 The Garland Company, Inc.  
 3800 East 91st. Street  
 Cleveland, Ohio 44105-2197  
 Ph: (800) 762-8225 Fax: (216) 641-0633

Garland Canada, Inc.  
 1296 Martin Grove Rd.  
 Toronto, Ontario M9W 4X3  
 Ph: (416)747-7995 Fax: (416)747-1980

**Emergency Telephone Number** 1-800-762-8225 (24 Hrs.)

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed  
 Harmful in contact with skin  
 Harmful if swallowed  
 Harmful by inhalation  
 Irritating to respiratory system  
 Irritating to skin  
 May be harmful if swallowed  
 May cause irritation of respiratory tract

**Appearance** Black.

**Physical State** Solid. Liquid.

**Odor** Aromatic.

**OSHA Regulatory Status** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Mexico - Grade** Serious risk, Grade 3

**Potential Health Effects****Principle Routes of Exposure** Skin contact, Inhalation, Ingestion.**Acute Effects****Eyes**

Avoid contact with eyes. Irritating to eyes.

**Skin**

Avoid contact with skin. Irritating to skin. May cause sensitization by skin contact.

**Inhalation**

Avoid breathing vapors or mists. Irritating to mucous membranes. Inhalation of vapours in high concentration may cause irritation of respiratory system.

**Ingestion**

May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Chronic Effects**

Prolonged exposure may cause chronic effects.

See Section 11 for additional Toxicological information.

**Aggravated Medical Conditions** Skin disorders. Central nervous system.**Interactions with Other Chemicals** Not available**Potential Environmental Effects** See Section 12 for additional Ecological information.**3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous Components**

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
High Temperature Coal Tar Pitch	65996-93-2	60 - 100	1
Fluoranthene	206-44-0	1 - 5	1
Phenanthrene	85-01-8	1 - 5	1
Pyrene	129-00-0	1 - 5	1
1,2-Benzanthracene	56-55-3	1 - 5	1
1,2-Benzphenanthrene	218-01-9	1 - 5	1
Benzo(a)pyrene	50-32-8	1 - 5	1
Benzo(G,H,I)Perylene	191-24-2	1 - 5	1
Indeno(1,2,3-CD)Pyrene	193-39-5	0.1 - 1	1
Benzo(B)fluoranthene	205-99-2	0.1 - 1	1
Dibenzo(A,H)pyrene	189-64-0	0.1 - 1	1
Benzo(J)fluoranthene	205-82-3	0.1 - 1	1
Benzo(K)fluoranthene	207-08-9	0.1 - 1	1
Dibenzo(A,E)pyrene	192-65-4	0.1 - 1	1
Dibenzo(A,I)pyrene	189-55-9	0.1 - 1	1
Dibenz(A,H)anthracene	53-70-3	0.1 - 1	1
Naphthalene	91-20-3	0.1 - 1	1
5-Methylchrysene	3697-24-3	0.1 - 1	1

**4. FIRST AID MEASURES****Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin Contact**

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use.

<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Drink 1 or 2 glasses of water. Do not induce vomiting. Call a physician or Poison Control Centre immediately.
<b>Notes to Physician</b>	Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ). Foam. Dry powder. Dry chemical.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Hazardous Combustion Products</b>	Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ), Hydrocarbons.
<b>Explosion Data</b>	
<b>Sensitivity to mechanical impact</b>	No
<b>Sensitivity to static discharge</b>	Yes

### Specific Hazards Arising from the Chemical

Combustible material. Thermal decomposition can lead to release of irritating gases and vapours.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**                      **Health 3**                      **Flammability 1**                      **Instability 0**

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Keep out of waterways.
<b>Methods for Containment</b>	Dam up
<b>Methods for Cleaning Up</b>	Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Keep in suitable and closed containers for disposal.
<b>Other Information</b>	Not applicable

## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Ensure adequate ventilation.
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**Storage**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep at temperatures below 100°C.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
High Temperature Coal Tar Pitch	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	STEL: 0.03 mg/m <sup>3</sup> STEL: 0.015 ppm TWA: 0.02 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup>
Naphthalene	TWA: 10 ppm STEL: 15 ppm Skin	TWA: 50 mg/m <sup>3</sup> TWA: 10 ppm	STEL: 78 mg/m <sup>3</sup> STEL: 15 ppm TWA: 10 ppm TWA: 52 mg/m <sup>3</sup>	STEL: 75 mg/m <sup>3</sup> STEL: 15 ppm TWA: 50 mg/m <sup>3</sup> TWA: 10 ppm

Chemical Name	NIOSH IDLH
High Temperature Coal Tar Pitch	80 mg/m <sup>3</sup>
Naphthalene	250 ppm

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Do not allow ventilation equipment to draw material odors indoors..

**Personal Protective Equipment****Eye/face Protection**

Tightly fitting safety goggles.

**Skin Protection**

Long sleeved clothing. Boots. Lightweight protective clothing.

**Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hygiene Measures**

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Black
<b>Odor</b>	Aromatic
<b>Physical State</b>	Solid Liquid
<b>pH</b>	Not available
<b>Flash Point</b>	> 374°F / > 190°C
<b>Method</b>	Tag closed cup
<b>Autoignition Temperature</b>	750°F / 399°C
<b>Boiling Point/Range</b>	>464°F / 240°C
<b>Freezing Point</b>	Not available
<b>Flammability Limits in Air</b>	<b>Lower</b> Not available <b>Upper</b> Not available
<b>Explosive Properties</b>	Not available
<b>Oxidizing Properties</b>	Not available
<b>Evaporation Rate</b>	0.37 for solvent (ether = 1)
<b>Vapor Pressure</b>	<1 mmHg @ 68 °F
<b>Vapor Density</b>	<1 @ Air = 1
<b>Specific Gravity</b>	1.3
<b>Solubility</b>	Slightly soluble

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Water Solubility</b>	slightly soluble
<b>Volatiles</b>	Not available
<b>VOC Content</b>	0 g/l

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ). Hydrocarbons.
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerisation does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### **Component Information**

<b>Chemical Name</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Fluoranthene	2 g/kg Rat	3180 mg/kg Rabbit	
Phenanthrene	700 mg/kg Mouse		
Pyrene	2700 mg/kg Rat		
Naphthalene	490 mg/kg Rat	2500 mg/kg Rat 20 g/kg Rabbit	340 mg/m <sup>3</sup> Rat 1 h

### Chronic Toxicity

#### **Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

<b>Chemical Name</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>	<b>Mexico</b>
High Temperature Coal Tar Pitch	A1	Group 1	Known	X	A1

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
1,2-Benzanthracene	A2	Group 2A	Reasonably Anticipated	X	
1,2-Benzphenanthrene	A3				
Benzo(a)pyrene	A2	Group 2A	Reasonably Anticipated	X	
Indeno(1,2,3-CD)Pyrene		Group 2B	Reasonably Anticipated	X	
Benzo(B)fluoranthene	A2	Group 2B	Reasonably Anticipated	X	
Dibenzo(A,H)pyrene		Group 2B	Reasonably Anticipated	X	
Benzo(J)fluoranthene		Group 2B	Reasonably Anticipated	X	
Benzo(K)fluoranthene		Group 2B	Reasonably Anticipated	X	
Dibenzo(A,E)pyrene		Group 2B	Reasonably Anticipated	X	
Dibenzo(A,I)pyrene		Group 2B	Reasonably Anticipated	X	
Dibenz(A,H)anthracene		Group 2A	Reasonably Anticipated	X	
Naphthalene		Group 2B	Reasonably Anticipated	X	
5-Methylchrysene		Group 2B	Reasonably Anticipated	X	

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No information available.

Pyrene**Water Flea Data***water flea EC50=1.8 mg/L (48 h)*1,2-Benzanthracene**Microtox Data***Photobacterium phosphoreum EC50=0.26 mg/L (15 min)***Water Flea Data***water flea EC50=0.01 mg/L (96 h)*1,2-Benzphenanthrene**Water Flea Data***water flea EC50=1.9 mg/L (2 h)*Naphthalene**Freshwater Algae Data***Skeletonema costatum EC50=0.4 mg/L (96 h)***Microtox Data***Photobacterium phosphoreum EC50=0.93 mg/L (30 min)**Pseudomonas putida EC50>20 mg/L (18 h)***Water Flea Data***water flea EC50=2.16 mg/L (48 h)***Persistence/Degradability**

Not available

**Bioaccumulation/ Accumulation**

Not available

**Mobility in Environmental Media**

Not available

High Temperature Coal Tar Pitch**log Pow** = 6.04Fluoranthene**log Pow** = 5.33Phenanthrene**log Pow** = 4.46Pyrene**log Pow** = 4.881,2-Benzanthracene**log Pow** = 5.611,2-Benzphenanthrene**log Pow** = 5.61 - 5.91Benzo(a)pyrene**log Pow** = 6.06Benzo(G,H,I)Perylene**log Pow** = 7.23Indeno(1,2,3-CD)Pyrene**log Pow** = 6.584Benzo(B)fluoranthene**log Pow** = 6.57Benzo(K)fluoranthene**log Pow** = 6.84Dibenz(A,H)anthracene**log Pow** = 6.50Naphthalene**log Pow** = 3.3

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method</b>	Dispose of in accordance with local regulations.
<b>Contaminated Packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal.
<b>US EPA Waste Number</b>	D001

Chemical Name	RCRA
Fluoranthene - 206-44-0	waste number U120

Chemical Name	RCRA
1,2-Benzanthracene - 56-55-3	waste number U018
1,2-Benzphenanthrene - 218-01-9	waste number U050
Benzo(a)pyrene - 50-32-8	waste number U022
Indeno(1,2,3-CD)Pyrene - 193-39-5	waste number U137
Benzo(B)fluoranthene - 205-99-2	(hazardous constituent - no waste number)
Dibenzo(A,H)pyrene - 189-64-0	(hazardous constituent - no waste number)
Benzo(J)fluoranthene - 205-82-3	(hazardous constituent - no waste number)
Benzo(K)fluoranthene - 207-08-9	(hazardous constituent - no waste number)
Dibenzo(A,E)pyrene - 192-65-4	(hazardous constituent - no waste number)
Dibenzo(A,I)pyrene - 189-55-9	waste number U064
Dibenz(A,H)anthracene - 53-70-3	waste number U063
Naphthalene - 91-20-3	waste number U165

## 14. TRANSPORT INFORMATION

**DOT** Not Regulated

**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s

**Hazard Class** 9

**Subsidiary Class**

**UN-No** UN3077

**Packing Group** III

**Reportable Quantity (RQ)** Dibenz[a,i]pyrene, RQ kg = 1816 Indeno1,2,3-cdpyrene, RQ kg = 4585.858  
Fluoranthene, RQ kg = 1297.143 Chrysene, RQ kg = 3242.857 Benz[a]anthracene,  
RQ kg = 324.2857 Acenaphthene, RQ kg = 9659.574 Naphthalene, RQ kg =  
18916.67

**Description** Environmentally hazardous substances, solid, n.o.s.(Dibenz[a,i]pyrene,Indeno(1,2,3-cd)pyrene,Fluoranthene,Chrysene,Benz[a]anthracene,Acenaphthene,Naphthalene),9,UN3077,PG III,RQ

**TDG** Not regulated

**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s

**Hazard Class** 9

**Subsidiary Class**

**UN-No** UN3077

**Packing Group** III

**Description** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., Class 9,UN3077,PG III

**MEX** Not regulated

**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s

**Hazard Class** 9

**Subsidiary Class**

**UN-No** UN3077

**Packing Group** III

**Description** UN3077 Environmentally hazardous substance, solid, n.o.s.,9,III

**ICAO** Not regulated

**UN-No** UN3077

**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s

**Hazard Class** 9

**Subsidiary Class**

**Packing Group** III

<b>14. TRANSPORT INFORMATION</b>
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<b>Description</b>	Environmentally hazardous substance, solid, n.o.s.*,UN3077,PG III
<b>IATA</b>	Not regulated
<b>UN-No</b>	UN3077
<b>Proper Shipping Name</b>	Environmentally hazardous substance, solid, n.o.s
<b>Hazard Class</b>	9
<b>Subsidiary Class</b>	
<b>Packing Group</b>	III
<b>ERG Code</b>	9L
<b>Description</b>	Environmentally hazardous substance, solid, n.o.s.*,UN3077,PG III
<b>IMDG/IMO</b>	Not regulated
<b>Proper Shipping Name</b>	Environmentally hazardous substance, solid, n.o.s
<b>Hazard Class</b>	9
<b>Subsidiary Class</b>	
<b>UN-No</b>	UN3077
<b>Packing Group</b>	III
<b>EmS No.</b>	F-A, S-F
<b>Description</b>	Environmentally hazardous substance, solid, n.o.s.,UN3077,PG III

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
High Temperature Coal Tar Pitch	X	X	-	X	-	X	X	X	X	X
Fluoranthene	X	-	X	X	-	X	X	-	-	X
Phenanthrene	X	X	-	X	-	X	X	X	X	X
Pyrene	X	X	-	X	-	X	X	-	X	X
1,2-Benzanthracene	X	-	X	X	-	-	X	-	-	-
1,2-Benzphenanthrene	X	X	-	X	-	-	-	X	-	X
Benzo(a)pyrene	X	X	-	X	-	-	X	X	X	-
Benzo(G,H,I)Perylene	-	-	-	X	-	-	-	-	-	-
Indeno(1,2,3-CD)Pyrene	X	-	X	X	-	-	-	-	-	-
Benzo(B)fluoranthene	-	-	-	X	-	-	-	-	-	-
Dibenzo(A,H)pyrene	-	-	-	X	-	-	-	-	-	-
Benzo(J)fluoranthene	-	-	-	X	-	-	-	-	-	-
Benzo(K)fluoranthene	-	-	-	X	-	-	-	-	-	-
Dibenzo(A,E)pyrene	-	-	-	X	-	-	-	-	-	-
Dibenzo(A,I)pyrene	-	-	-	X	-	-	-	-	-	-
Dibenz(A,H)anthracene	X	-	X	X	-	-	X	-	-	-
Naphthalene	X	X	-	X	-	X	X	X	X	X
5-Methylchrysene	-	-	-	-	-	-	-	-	-	-

<b>TSCA</b>	Does not Comply
<b>DSL</b>	Does not Comply
<b>NDSL</b>	Does not Comply
<b>EINECS</b>	Does not Comply
<b>ELINCS</b>	Does not Comply
<b>ENCS</b>	Does not Comply
<b>CHINA</b>	Does not Comply
<b>KECL</b>	Does not Comply

PICCS Does not Comply  
AICS Does not Comply

**USA****Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

Chemical Name	SARA 313 - Threshold Values
Fluoranthene (CAS #: 206-44-0)	1.0%
Phenanthrene (CAS #: 85-01-8)	1.0%
1,2-Benzanthracene (CAS #: 56-55-3)	0.1%
1,2-Benzphenanthrene (CAS #: 218-01-9)	0.1%
Benzo(a)pyrene (CAS #: 50-32-8)	0.1%
Benzo(G,H,I)Perylene (CAS #: 191-24-2)	1.0%
Indeno(1,2,3-CD)Pyrene (CAS #: 193-39-5)	0.1%
Benzo(B)fluoranthene (CAS #: 205-99-2)	0.1%
Dibenzo(A,H)pyrene (CAS #: 189-64-0)	0.1%
Benzo(J)fluoranthene (CAS #: 205-82-3)	0.1%
Benzo(K)fluoranthene (CAS #: 207-08-9)	0.1%
Dibenzo(A,E)pyrene (CAS #: 192-65-4)	0.1%
Dibenzo(A,I)pyrene (CAS #: 189-55-9)	0.1%
Dibenz(A,H)anthracene (CAS #: 53-70-3)	0.1%
Naphthalene (CAS #: 91-20-3)	0.1%
5-Methylchrysene (CAS #: 3697-24-3)	0.1%

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**Chemical Name**

Naphthalene (CAS #: 91-20-3)

**State Regulations****California Proposition 65**

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

Chemical Name	CAS-No	Category	Type
1,2-Benzanthracene	56-55-3	Carcinogen	
1,2-Benzphenanthrene	218-01-9	Carcinogen	
Benzo(a)pyrene	50-32-8	Carcinogen	
Indeno(1,2,3-CD)Pyrene	193-39-5	Carcinogen	
Benzo(B)fluoranthene	205-99-2	Carcinogen	
Dibenzo(A,H)pyrene	189-64-0	Carcinogen	
Benzo(J)fluoranthene	205-82-3	Carcinogen	
Benzo(K)fluoranthene	207-08-9	Carcinogen	
Dibenzo(A,E)pyrene	192-65-4	Carcinogen	
Dibenzo(A,I)pyrene	189-55-9	Carcinogen	
Dibenz(A,H)anthracene	53-70-3	Carcinogen	
Naphthalene	91-20-3	Carcinogen	

Chemical Name	CAS-No	Category	Type
5-Methylchrysene	3697-24-3	Carcinogen	

**State Right-to-Know**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
High Temperature Coal Tar Pitch	X	X	X	X	
Fluoranthene	X	X	X		
Phenanthrene	X	X	X		
Pyrene	X	X	X	X	
1,2-Benzanthracene	X	X	X	X	X
1,2-Benzphenanthrene	X	X	X	X	X
Benzo(a)pyrene	X	X	X	X	X
Benzo(G,H,I)Perylene	X	X	X	X	
Indeno(1,2,3-CD)Pyrene	X	X	X	X	
Benzo(B)fluoranthene	X	X	X	X	X
Dibenzo(A,H)pyrene	X	X	X	X	X
Benzo(J)fluoranthene	X	X	X	X	X
Benzo(K)fluoranthene	X	X	X	X	
Dibenzo(A,E)pyrene	X	X	X	X	X
Dibenzo(A,I)pyrene	X	X	X	X	X
Dibenz(A,H)anthracene	X	X	X	X	X
Naphthalene	X	X	X	X	X
5-Methylchrysene	X		X	X	

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

D2A Very toxic materials

16. OTHER INFORMATION
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**Revision Date** 16-Apr-2007

**Revision Summary** Not available

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**