



# Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
			DOT Not Regulated

Preparation Date No data available

Revision Date 16-Apr-2007

Revision Number 4

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Black-Knight™ Mastic  
**Product Code** 7824  
**UN-No** UN1999

**Contact Manufacturer**

GMX, Inc.  
 9105 Way Ave.  
 Cleveland, OH 44105  
 Ph: (216) 641-7502 Fax: (216) 641-0633

Garland Canda, 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**

Combustible material

**Appearance** Black.

**Physical State** Liquid.

**Odor** Strong.

**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.

<b>Ingestion</b>	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
<b>Chronic Effects</b>	Prolonged exposure may cause chronic effects.
See Section 11 for additional Toxicological information.	
<b>Aggravated Medical Conditions</b>	Skin disorders. Central nervous system.
<b>Interactions with Other Chemicals</b>	Not available
<b>Potential Environmental Effects</b>	See Section 12 for additional Ecological information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Refined Coal Tar Pitch	65996-93-2	60 - 100	1

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	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 2****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. Keep away from open flames, hot surfaces and sources of ignition. Ensure adequate ventilation.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
Refined 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>

Chemical Name	NIOSH IDLH
Refined Coal Tar Pitch	80 mg/m <sup>3</sup>

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas. Do not allow ventilation equipment to draw material odors indoors..
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**Personal Protective Equipment**

<b>Eye/face Protection</b>	Tightly fitting safety goggles.
<b>Skin Protection</b>	Long sleeved clothing. Boots. Lightweight protective clothing.
<b>Respiratory Protection</b>	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>	Strong	
<b>Physical State</b>	Liquid	
<b>pH</b>	Not available	
<b>Flash Point</b>	112°F / 44°C	
<b>Method</b>	Tag closed cup	
<b>Autoignition Temperature</b>	910°F / 488°C	
<b>Boiling Point/Range</b>	313°F / 156°C	
<b>Freezing Point</b>	Not available	
<b>Flammability Limits in Air</b>	<b>Lower</b> Not available	<b>Upper</b> Not available
<b>Explosion Limits</b>	<b>Lower</b> 0.5%	<b>Upper</b> 6.0%
<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>	2.7 mmHg @ 68 °F	
<b>Vapor Density</b>	4.2 (Ethyl Ether = 1)	
<b>Specific Gravity</b>	> 1 (water = 1)	
<b>Solubility</b>	Slightly soluble	
<b>Water Solubility</b>	Miscible with water	
<b>Volatiles</b>	<30% by volume	
<b>VOC Content</b>	270 g/L	

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Heat, flames and sparks.
<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****Chronic Toxicity****Carcinogenicity**

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

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
Refined Coal Tar Pitch	A1	Group 1	Known	X	A1

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No information available.

**Persistence/Degradability** Not available

**Bioaccumulation/ Accumulation** Not available

**Mobility in Environmental Media** Not available

Refined Coal Tar Pitch

**log Pow = 6.04**

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

**Contaminated Packaging** Empty containers should be taken for local recycling, recovery or waste disposal.

**US EPA Waste Number** D001

## 14. TRANSPORT INFORMATION

**DOT** Not Regulated

**Subsidiary Class**

**UN-No** UN1999

**Reportable Quantity (RQ)**

**TDG** Not regulated

**Subsidiary Class**

**MEX** Not regulated

**Subsidiary Class**

**ICAO** Not regulated

**UN-No** UN1999

**Proper Shipping Name** Tars, liquid

**Hazard Class** 3

**Subsidiary Class**

**Packing Group** III

**Description** Tars, liquid, UN1999, PG III

<b>14. TRANSPORT INFORMATION</b>
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**IATA** Not regulated  
**UN-No** UN1999  
**Proper Shipping Name** Tars, liquid  
**Hazard Class** 3  
**Subsidiary Class**  
**Packing Group** III  
**ERG Code** 3L  
**Description** Tars, liquid,UN1999,PG III

**IMDG/IMO** Not regulated  
**Proper Shipping Name** Tars, liquid  
**Hazard Class** 3  
**Subsidiary Class**  
**UN-No** UN1999  
**Packing Group** III  
**EmS No.** F-E, S-E  
**Description** Tars, liquid,UN1999,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
Refined Coal Tar Pitch	X	X	-	X	-	X	X	X	X	X

**TSCA** Does not Comply  
**DSL** Does not Comply  
**NDSL** Complies  
**EINECS** Does not Comply  
**ELINCS** Does not Comply  
**ENCS** Does not Comply  
**CHINA** Does not Comply  
**KECL** 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 does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

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

This product does not contain any HAPs.

**State Regulations**

**California Proposition 65**

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

**State Right-to-Know**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Refined Coal Tar Pitch	X	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**

B3 Combustible liquid

D2A Very toxic materials

**16. OTHER INFORMATION**

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**