






since 1895

Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
			DOT Not Regulated

Preparation Date 20-Dec-2006

Revision Date 16-Apr-2007

Revision Number 5

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Black-Knight™ Cold
Product Code 7343
UN-No 1999

Contact Manufacturer
 The Garland Company, Inc.
 3800 East 91st. Street
 Cleveland, Ohio 44105-2197
 Ph: (800) 762-8225 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
Irritating to skin

Appearance Black.

Physical State Liquid.

Odor Petroleum distillates.

Mexico - Grade Moderate risk, Grade 2

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
Talc (non-asbestiform)	14807-96-6	5 - 10	1
Refined Coal Tar Pitch	65996-93-2	60 - 100	1
Styrene Butadiene Polymer	9003-55-8	5 - 10	1
Cellulose Fiber	9004-34-6	1 - 5	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.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.
Ingestion	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.
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Carbon dioxide (CO ₂). Foam. Dry powder. Dry chemical.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Hazardous Combustion Products	Carbon monoxide, Carbon dioxide (CO ₂), Hydrocarbons.

Explosion Data

Sensitivity to mechanical impact	No
Sensitivity to static discharge	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

Personal Precautions	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.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Keep out of waterways.
Methods for Containment	Dam up
Methods for Cleaning Up	Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Keep in suitable and closed containers for disposal.
Other Information	Not applicable

7. HANDLING AND STORAGE

Handling	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.
Storage	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
Talc (non-asbestiform)	TWA: 2 mg/m ³		TWA: 2 mg/m ³	TWA: 2 mg/m ³
Refined Coal Tar Pitch	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	STEL: 0.03 mg/m ³ STEL: 0.015 ppm TWA: 0.02 mg/m ³ TWA: 0.002 mg/m ³
Cellulose Fiber	TWA: 10 mg/m ³	TWA: 5 mg/m ³ TWA: 15 mg/m ³	TWA: 10 mg/m ³	STEL: 20 mg/m ³ TWA: 10 mg/m ³

Chemical Name	NIOSH IDLH
Talc (non-asbestiform)	1000 mg/m ³ containing no asbestos and <1% quartz

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

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

Appearance	Black
Odor	Petroleum distillates
Physical State	Liquid
pH	Not available
Flash Point	112°F / 44°C
Method	Tag closed cup
Autoignition Temperature	910°F / 488°C
Boiling Point/Range	313°F / 156°C
Freezing Point	Not available
Flammability Limits in Air	Lower 0.5% Upper 6.0%
Explosive Properties	Not available
Oxidizing Properties	Not available
Evaporation Rate	0.37 for solvent (ether = 1)
Vapor Pressure	2.7 mmHg @ 68 °F
Vapor Density	4.2
Specific Gravity	> 1
Water Solubility	Miscible with water
Volatiles	<30% by volume
VOC Content	270 g/L

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and sparks.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO ₂). Hydrocarbons.
Possibility of Hazardous Reactions	Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

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Acute Toxicity

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cellulose Fiber	5 g/kg Rat	2 g/kg Rabbit	5800 mg/m ³ Rat 4 h

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

1999

Reportable Quantity (RQ)

14. TRANSPORT INFORMATION

<u>TDG</u>	Not regulated
Subsidiary Class	
<u>MEX</u>	Not regulated
Subsidiary Class	
<u>ICAO</u>	Not regulated
UN-No	UN1999
Proper Shipping Name	Tars, liquid
Hazard Class	3
Subsidiary Class	
Packing Group	III
Description	Tars, liquid,UN1999,PG III
<u>IATA</u>	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
<u>IMDG/IMO</u>	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

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Talc (non-asbestiform)	X	X	-	X	-	-	X	X	X	X
Refined Coal Tar Pitch	X	X	-	X	-	X	X	X	X	X
Styrene Butadiene Polymer	X	X	-	-	-	X	X	X	X	X
Cellulose Fiber	X	X	-	X	-	X	X	X	X	X

TSCA	Complies
DSL	Complies
NDSL	Complies
EINECS	Does not Comply
ELINCS	Does not Comply
ENCS	Does not Comply
CHINA	Complies
KECL	Complies

PICCS Complies
AICS Complies

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
Talc (non-asbestiform)	X	X	X		X
Refined Coal Tar Pitch	X	X	X	X	
Cellulose Fiber	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

Preparation Date 20-Dec-2006
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