



since 1895

# Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
			DOT Not Regulated

Preparation Date 08-Dec-2006

Revision Date 16-Apr-2007

Revision Number 4

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Garlastic KM® Plus  
**Product Code** 7352  
**UN-No**

**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

Irritant

**Appearance** Black.

**Physical State** Liquid.

**Odor** Slight. Odor.

**Mexico - Grade** Slight risk, Grade 1

### Potential Health Effects

**Principle Routes of Exposure** Skin contact, Eye contact, Inhalation, Ingestion.

### Acute Effects

**Eyes**

**Skin**

**Inhalation**

Avoid contact with eyes. Moderately irritating to the eyes.

Avoid contact with skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.

May cause irritation of respiratory tract.

<b>Ingestion</b>	Harmful if swallowed. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
<b>Chronic Effects</b>	Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very susceptible persons.
See Section 11 for additional Toxicological information.	
<b>Main Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Aggravated Medical Conditions</b>	Skin disorders.
<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
Asphalt	8052-42-4	60 - 100	1
Styrene-Butadiene Block Copolymer	9003-55-8	10 - 30	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. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
<b>Ingestion</b>	Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
<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>	

**Sensitivity to mechanical impact** No  
**Sensitivity to static discharge** No

**Specific Hazards Arising from the Chemical**

No information available.

**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 1****Flammability 0****Instability 0**

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Evacuate personnel to safe areas.

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Keep out of waterways.

**Methods for Containment** Dike with inert absorbant material

**Methods for Cleaning Up** Take precautionary measures against static discharges. 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** Avoid contact with skin and eyes. Ensure adequate ventilation.

**Storage** Keep container tightly closed. Keep in properly labelled containers. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
Asphalt	TWA: 0.5 mg/m <sup>3</sup>		TWA: 0.5 mg/m <sup>3</sup>	STEL: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>

**Engineering Measures** Do not allow ventilation equipment to draw material odors indoors..

**Personal Protective Equipment**

**Eye/face Protection** Safety glasses with side-shields

**Skin Protection** Impervious gloves. Long sleeved clothing.

**Respiratory Protection** No special protective equipment required.

**Hygiene Measures**

Wash hands before breaks and at the end of workday. 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>	Slight Odor	
<b>Physical State</b>	Liquid	
<b>pH</b>	pH	
<b>Flash Point</b>	> 400°F / > 204°C	
<b>Autoignition Temperature</b>	>700°F / >371°C	
<b>Boiling Point/Range</b>	>650°F / >343°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>	Not available	
<b>Vapor Pressure</b>	Not available	
<b>Vapor Density</b>	>1.0 @ Air = 1	
<b>Specific Gravity</b>	>1.0	
<b>Solubility</b>	partly miscible	
<b>Water Solubility</b>	Insoluble	
<b>Volatiles</b>	Not available	

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	No information available.
<b>Incompatible Materials</b>	No materials to be especially mentioned.
<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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Asphalt	5000 mg/kg Rat	2000 mg/kg Rabbit	

### Chronic Toxicity

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

## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

**Persistence/Degradability** Not available

**Bioaccumulation/ Accumulation** Not available

**Mobility in Environmental Media** Not available

Asphalt

**log Pow = 6**

<b>13. DISPOSAL CONSIDERATIONS</b>
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**Waste Disposal Method** Dispose of in accordance with local regulations

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

**US EPA Waste Number** Not available

<b>14. TRANSPORT INFORMATION</b>
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**DOT** Not Regulated

**Hazard Class**

**Subsidiary Class**

**UN-No**

**Packing Group**

**Reportable Quantity (RQ)**

**TDG** Not regulated

**Hazard Class**

**Subsidiary Class**

**UN-No**

**Packing Group**

**MEX** Not regulated

**Hazard Class**

**Subsidiary Class**

**UN-No**

**Packing Group**

**ICAO** Not regulated

**UN-No**

**Hazard Class**

**Subsidiary Class**

<b>14. TRANSPORT INFORMATION</b>
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**Packing Group****IATA** Not regulated

UN-No

Hazard Class

Subsidiary Class

Packing Group

ERG Code

**IMDG/IMO** Not regulated

Hazard Class

Subsidiary Class

UN-No

Packing Group

EmS No.

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

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Asphalt	X	X	-	X	-	-	X	X	X	X
Styrene-Butadiene Block Copolymer	X	X	-	-	-	X	X	X	X	X

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>NDSL</b>	Complies
<b>EINECS</b>	Does not Comply
<b>ELINCS</b>	Does not Comply
<b>ENCS</b>	Does not Comply
<b>CHINA</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	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
Asphalt	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**

D2B Toxic materials

**16. OTHER INFORMATION**

**Preparation Date** 08-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**