






since 1895

# Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
			DOT Not Regulated

Preparation Date 08-Dec-2006

Revision Date 19-Apr-2010

Revision Number 9

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Flashing Bond®  
**Product Code** 7110  
**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

**Appearance** Black.

**Physical State** Liquid.

**Odor** Petroleum distillates.

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

### Potential Health Effects

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

**Acute Effects****Eyes  
Skin**

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.

**Inhalation  
Ingestion**

Avoid breathing vapors or mists. May cause irritation of respiratory tract.

Harmful if swallowed. Ingestion may cause irritation to mucous membranes.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Chronic Effects**

Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very susceptible persons.

See Section 11 for additional Toxicological information.

**Main Symptoms**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Aggravated Medical Conditions**

Liver disorders. Kidney disorders. 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
Petroleum Asphalt	8052-42-4	30 - 60	1
Stoddard solvent	8052-41-3	10 - 30	1
Hydrous Alumino Silicate	12174-11-7	10 - 30	1
Quartz (Crystalline Silica)	14808-60-7	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. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.

**Inhalation**

Move to fresh air. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.

**Ingestion**

Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

**Notes to Physician**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Foam. Dry powder. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

**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<sub>2</sub>), Hydrocarbons.

**Explosion Data**

**Sensitivity to mechanical impact**

No

**Sensitivity to static discharge**

Yes

**Specific Hazards Arising from the Chemical**

Combustible material. Keep product and empty container away from heat and sources of ignition.

**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 2**

**Instability 0**

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**

Avoid contact with the skin and the eyes. Ensure adequate ventilation. Remove all sources of ignition.

**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. 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 away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
Petroleum 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>
Stoddard solvent	TWA: 100 ppm	TWA: 2900 mg/m <sup>3</sup> TWA: 500 ppm	TWA: 525 mg/m <sup>3</sup>	STEL: 200 ppm STEL: 1050 mg/m <sup>3</sup> TWA: 523 mg/m <sup>3</sup> TWA: 100 ppm
Quartz (Crystalline Silica)	TWA: 0.025 mg/m <sup>3</sup>		TWA: 0.10 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>

Chemical Name	NIOSH IDLH
Stoddard solvent	20000 mg/m <sup>3</sup>
Quartz (Crystalline Silica)	50 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>	Petroleum distillates	
<b>Physical State</b>	Liquid	
<b>pH</b>	Not available	
<b>Flash Point</b>	105°F / 41°C	
<b>Method</b>	Tag closed cup	
<b>Autoignition Temperature</b>	540°F / 282°C	
<b>Boiling Point/Range</b>	300-390°F / 149-199°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>	6 mmHg @ °F	
<b>Vapor Density</b>	@ Air = 1	
<b>Specific Gravity</b>	1.03	
<b>Solubility</b>	partly miscible	
<b>Water Solubility</b>	Insoluble	
<b>Volatiles</b>	21-25%	
<b>VOC Content</b>	250 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>	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

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### Acute Toxicity

#### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum Asphalt	5000 mg/kg Rat	2000 mg/kg Rabbit	
Quartz (Crystalline Silica)	500 mg/kg Rat		

### Chronic Toxicity

#### Carcinogenicity

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

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
Hydrous Alumino Silicate		Group 2B		X	
Quartz (Crystalline Silica)	A2	Group 1	Known	X	

## 12. ECOLOGICAL INFORMATION

### 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

Petroleum Asphalt

**log Pow = 6**

## 13. DISPOSAL CONSIDERATIONS

**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** D001

## 14. TRANSPORT INFORMATION

**DOT** Not Regulated

**Subsidiary Class**

**UN-No** 1999

**Reportable Quantity (RQ)**

<b>14. TRANSPORT INFORMATION</b>
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<b>TDG</b>	Not regulated
<b>Subsidiary Class</b>	
<b>MEX</b>	Not regulated
<b>Subsidiary Class</b>	
<b>ICAO</b>	Not regulated
<b>UN-No</b>	UN1999
<b>Proper Shipping Name</b>	Tars, liquid
<b>Hazard Class</b>	3
<b>Subsidiary Class</b>	
<b>Packing Group</b>	III
<b>Description</b>	Tars, liquid, UN1999, PG III
<b>IATA</b>	Not regulated
<b>UN-No</b>	UN1999
<b>Proper Shipping Name</b>	Tars, liquid
<b>Hazard Class</b>	3
<b>Subsidiary Class</b>	
<b>Packing Group</b>	III
<b>ERG Code</b>	3L
<b>Description</b>	Tars, liquid, UN1999, PG III
<b>IMDG/IMO</b>	Not regulated
<b>Proper Shipping Name</b>	Tars, liquid
<b>Hazard Class</b>	3
<b>Subsidiary Class</b>	
<b>UN-No</b>	UN1999
<b>Packing Group</b>	III
<b>EmS No.</b>	F-E, S-E
<b>Description</b>	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
Petroleum Asphalt	X	X	-	X	-	-	X	X	X	X
Stoddard solvent	X	X	-	X	-	-	X	X	X	X
Hydrous Alumino Silicate	-	-	-	-	-	-	X	-	X	X
Quartz (Crystalline Silica)	X	X	-	X	-	X	X	X	X	X

<b>TSCA</b>	Does not Comply
<b>DSL</b>	Does not Comply
<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

KECL Does not Comply  
 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.

Chemical Name	CAS-No	Category	Type
Hydrous Alumino Silicate	12174-11-7	Carcinogen	
Quartz (Crystalline Silica)	14808-60-7	Carcinogen	

**State Right-to-Know**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Petroleum Asphalt	X	X	X		X
Stoddard solvent	X	X	X		X
Quartz (Crystalline Silica)	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  
 D2B Toxic materials

16. OTHER INFORMATION
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Preparation Date 08-Dec-2006  
 Revision Date 19-Apr-2010  
 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**