



# Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
			<p style="text-align: center;">Not Regulated</p>

Preparation Date 08-Dec-2006

Revision Date 05-Jun-2012

Revision Number 5

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	Flashing Bond® WG
<b>Product Code</b>	7311
<b>UN-No</b>	1999
<b>Contact Manufacturer</b>	Garland Canada, Inc.
The Garland Company, Inc.	209 Carrier Dr.
3800 East 91st. Street	Toronto, Ontario M9W 5Y8
Cleveland, Ohio 44105-2197	Ph: (416)747-7995 (800)387-5991
Ph: (800) 762-8225 Fax: (216) 641-0633	Fax: (416)747-1980
<b>Emergency Telephone Number</b>	1-800-762-8225 (24 Hrs.)

## 2. HAZARDS IDENTIFICATION

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### Emergency Overview

Combustible material

**Appearance** - Black

**Physical State** - Liquid

**Odor** - Petroleum distillates

**Mexico - Grade**

Moderate risk, Grade 2

### Potential Health Effects

#### **Principle Routes of Exposure**

Skin contact. Eye contact. Inhalation. Ingestion.

#### **Acute Effects**

##### **Eyes**

Avoid contact with eyes. Moderately irritating to the eyes. May cause corneal damage..

##### **Skin**

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

##### **Inhalation**

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

##### **Ingestion**

Harmful if swallowed. Ingestion can cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### **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** No information available.

**Potential Environmental Effects** See Section 12 for additional Ecological information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Stoddard solvent	8052-41-3	10 - 30
Petroleum Asphalt	8052-42-4	10 - 30
Cellulose	9004-34-6	-

## 4. FIRST AID MEASURES

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<b>General Advice</b>	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Remove from exposure, lie down.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Remove from exposure, lie down. Call a physician immediately.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. Call a physician immediately.
<b>Ingestion</b>	Do not induce vomiting. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Foam. Dry powder. Dry chemical. Carbon dioxide (CO <sub>2</sub> ).
<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	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. Standard procedure for chemical fires.

**NFPA**

**Health 1**

**Flammability 2**

**Instability 0**

#### 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal Precautions</b>	Use personal protective equipment. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
<b>Methods for Containment</b>	Dike with inert absorbent material
<b>Methods for Cleaning Up</b>	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
<b>Other Information</b>	Not applicable

## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear personal protective equipment. Do not breathe vapors or spray mist. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.
<b>Storage</b>	Keep in properly labeled containers. Keep tightly closed in a dry and cool place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
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
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>
Cellulose	TWA: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	STEL: 20 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>

Chemical Name	NIOSH IDLH
Stoddard solvent	20000 mg/m <sup>3</sup>

**IDLH:** Immediately Dangerous to Life or Health

**Engineering Measures**                      Ensure adequate ventilation, especially in confined areas.

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

Tightly fitting safety goggles. Safety glasses with side-shields.

**Skin Protection**

Long sleeved clothing. Chemical resistant apron. Impervious butyl rubber gloves. Break through time. .?. Lightweight protective clothing. Antistatic boots.

**Respiratory Protection**

Wear a positive-pressure supplied-air respirator.

**Hygiene Measures**

When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

**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>	No data available	
<b>Flammability Limits in Air</b>	<b>Lower</b> Not available	<b>Upper</b> Not available
<b>Explosion Limits</b>	<b>Lower</b> 0.8%	<b>Upper</b> 5.0%
<b>Explosive Properties</b>	Not available	
<b>Oxidizing Properties</b>	Not available	
<b>Evaporation Rate</b>	40x slower (ether = 1)	
<b>Vapor Pressure</b>	5-10.3 mmHg	
<b>Vapor Density</b>	3.9 @ Air = 1	
<b>Specific Gravity</b>	1.03	
<b>Density</b>		
<b>Solubility</b>	partly miscible	
<b>Water Solubility</b>	No information available	
<b>Partition Coefficient (n-octanol/water)</b>		
<b>Volatiles</b>	21-25%	
<b>Viscosity</b>	Not available	
<b>VOC Content</b>	220 g/L	

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under recommended storage conditions. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Open flames and intense heat. Heating in air.
<b>Incompatible Materials</b>	No materials to be especially mentioned.

**Hazardous Decomposition Products**

Carbon oxides.

**Possibility of Hazardous Reactions**

Hazardous polymerization does not occur

<b>11. TOXICOLOGICAL INFORMATION</b>
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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	
Cellulose	5 g/kg Rat	2 g/kg Rabbit	5800 mg/m <sup>3</sup> Rat 4 h

**Chronic Toxicity****Carcinogenicity**

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

<b>12. ECOLOGICAL INFORMATION</b>
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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

Petroleum Asphalt**log Pow = 6**

<b>13. DISPOSAL CONSIDERATIONS</b>
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**Waste Disposal Method**

Should not be released into the environment. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

**Contaminated Packaging**

Clean container with water. Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number D001

#### 14. TRANSPORT INFORMATION

<b><u>DOT</u></b>	Not Regulated
UN-No	1999
Subsidiary Class	
Reportable Quantity (RQ)	
<b><u>TDG</u></b>	Not regulated
Subsidiary Class	
<b><u>MEX</u></b>	Not regulated
Subsidiary Class	
<b><u>ICAO</u></b>	
UN-No	UN1999
Proper Shipping Name	Tars, liquid
Hazard Class	3
Subsidiary Class	
Packing Group	III
Description	Tars, liquid,UN1999,PG III
<b><u>IATA</u></b>	
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
<b><u>IMDG/IMO</u></b>	
UN-No	UN1999
Proper Shipping Name	Tars, liquid
Hazard Class	3
Subsidiary Class	
Packing Group	III
EmS No.	F-E, S-E
Description	Tars, liquid,UN1999,PG III

#### 15. REGULATORY INFORMATION

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**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Stoddard solvent	X	X	X	X	X	X	X	X	X	X
Petroleum Asphalt	X	X	X	X	X	X	X	X	X	X
Cellulose	X	X	X	X	X	X	X	X	X	X

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>NDSL</b>	Complies
<b>EINECS</b>	Complies
<b>ELINCS</b>	Complies
<b>ENCS</b>	Complies
<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 contains a chemical or chemicals which are subject to the reporting requirements of the Act 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**

This product contains the following Proposition 65 chemicals:

**State Right-to-Know**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Stoddard solvent	X	X	X		X
Petroleum Asphalt	X	X	X		X
Cellulose	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

**Legend**

NPRI - National Pollutant Release Inventory

<b>16. OTHER INFORMATION</b>
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<b>Preparation Date</b>	08-Dec-2006
<b>Revision Date</b>	05-Jun-2012
<b>Revision Summary</b>	Regulatory update Transportation update

## 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**