



Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
			DOT Not Regulated

Preparation Date 08-Dec-2006

Revision Date 16-Apr-2007

Revision Number 5

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Garla-Shield®
Product Code 7510
UN-No Not available

Contact Manufacturer
 The Garland Company, Inc.
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 Cleveland, Ohio 44105-2197
 Ph: (800) 762-8225 Fax: (216) 641-0633

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 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 Dark brown.

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

Avoid contact with eyes. Moderately irritating to the eyes.

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 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	Not available
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

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call 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	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 No

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 0

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	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 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
Petroleum Asphalt	TWA: 0.5 mg/m ³		TWA: 0.5 mg/m ³	STEL: 10 mg/m ³ TWA: 5 mg/m ³

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

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Appearance	Dark brown	
Odor	Petroleum distillates	
Physical State	Liquid	
pH	pH	
Flash Point	> 400°F / > 204°C	
Autoignition Temperature	>700°F / >371°C	
Boiling Point/Range	>650°F / >343°C	
Freezing Point	Not available	
Flammability Limits in Air	Lower Not available	Upper Not available
Explosive Properties	Not available	
Oxidizing Properties	Not available	
Evaporation Rate	Not available	
Vapor Pressure	Not available	
Vapor Density	>1.0 @ Air = 1	
Specific Gravity	>1.0	
Solubility	partly miscible	
Water Solubility	Insoluble	
Volatiles	Not available	
VOC Content	30 g/L	

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	No information available.
Incompatible Materials	No materials to be especially mentioned.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO ₂). Hydrocarbons.
Possibility of Hazardous Reactions	Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum 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

Ecotoxicity

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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	Not available

14. TRANSPORT INFORMATION

DOT	Not Regulated
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Petroleum Asphalt	X	X	-	X	-	-	X	X	X	X

TSCA	Complies
DSL	Complies
NDSL	Complies
EINECS	Complies
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
Petroleum 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