



# Garla-Shield

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 05/13/2015

Date of Issue: 03/16/2017

Version: 1.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Garla-Shield

**Product Code:** 7510

#### Intended Use of the Product

Cold process, asphalt emulsion. For professional use only.

#### Name, Address, and Telephone of the Responsible Party

##### Manufacturer

The Garland Company, Inc.  
3800 East 91<sup>st</sup> Street  
Cleveland, Ohio 44105-2197  
T-800-762-8225  
F-216-641-0633  
www.garlandco.com

##### Supplier

The Garland Company, Inc.  
3800 East 91<sup>st</sup> Street  
Cleveland, Ohio 44105-2197  
T-800-762-8225  
F-216-641-0633

The Garland Company, Inc.  
209 Carrier Drive  
Toronto, Ontario M9W 5Y8  
T-416-747-7995 800-387-5991  
F-416-747-1980

#### Emergency Telephone Number

**Emergency Number:** 1-800-262-8200 (CHEMTREC)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

**Classification (GHS-US)**

Carc. 1B

H350

#### Label Elements

**GHS-US Labeling**

**Hazard Pictograms (GHS-US)**



**Signal Word (GHS-US)**

: Danger

**Hazard Statements (GHS-US)**

: H350-May cause cancer by route of exposure if conclusively proven that no other route applies

**Precautionary Statements (GHS-US)**

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P308 + P313 - IF exposed or concerned: Get medical advice/attention.  
P405 - Store locked up.  
P501 - Dispose of contents/container to an approved waste disposal plant.

#### Other Hazards

**Other Hazards Not Contributing to the Classification:** Not available

#### Unknown Acute Toxicity (GHS-US)

No data available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not available

#### Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Asphalt	(CAS No) 8052-42-4	50-60	Carc. 2, H351
Silica	(CAS No) 14808-60-7	.01-1	Carc. 1A, H350 STOT RE 1, H372

Full text of H-Phrases: See Section 16

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### SECTION 4: FIRST AID MEASURES

#### Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** Allow victim to breathe fresh air. Allow the victim to rest.

**First-aid Measures After Skin Contact:** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**First-aid Measures After Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

**First-aid Measures After Ingestion:** If swallowed, do NOT induce vomiting. Consult a physician. Never give anything by mouth to an unconscious person.

#### Most Important Symptoms and Effects, Both Acute and Delayed

**General:** Irritation to eyes, skin, and respiratory tract. May be fatal if swallowed or enters airways.

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation. May cause drowsiness or dizziness.

**Symptoms/Injuries After Skin Contact:** Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

**Symptoms/Injuries After Eye Contact:** Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

**Symptoms/Injuries After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

**Chronic Symptoms:** May cause genetic defects. May cause cancer.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

### SECTION 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream.

#### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Water Based Product with no Flash Point. Material will not burn in liquid state. Cured product will burn.

**Explosion Hazard:** May form explosive flammable/explosive vapor-air mixture.

**Reactivity:** Product is stable.

#### Advice for Firefighters

**Precautionary Measures Fire:** Not available

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

#### Reference to Other Sections

Refer to section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

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

#### For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Ventilate area.

#### Environmental Precautions

Prevent entry to sewers and public waters. Avoid release into the environment.

#### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain with dikes or absorbents to prevent migration and entry into sewers or streams. Absorb and/or contain spill with inert material.

**Methods for Cleaning Up:** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal.

#### Reference to Other Sections

See Heading 8, Exposure Controls and Personal Protection.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for Safe Handling

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**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

### **Conditions for Safe Storage, Including Any Incompatibilities**

**Storage Conditions:** Keep container tightly closed and store in a dry, well-ventilated place. Keep out of reach of children.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Storage Area:** Store locked up. Store in a well-ventilated place. Keep cool.

**Special Rules on Packaging:** Keep only in original container.

### **Specific End Use(s)**

For professional use only.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control Parameters**

<b>Asphalt (8052-42-4)</b>		
Mexico	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Mexico	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Ontario	OEL TWA (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>

<b>Stoddard solvent (8052-41-3)</b>		
Mexico	OEL TWA (mg/m <sup>3</sup> )	523 mg/m <sup>3</sup>
Mexico	OEL TWA (ppm)	100 ppm
Mexico	OEL STEL (mg/m <sup>3</sup> )	1050 mg/m <sup>3</sup>
Mexico	OEL STEL (ppm)	200 ppm
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2900 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	500 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	20000 mg/m <sup>3</sup>
Ontario	OEL TWA (mg/m <sup>3</sup> )	525 mg/m <sup>3</sup>

<b>Attapulgit (12174-11-7)</b>		
Quebec	VEMP (mg/m <sup>3</sup> )	1 fibers/cm <sup>3</sup>

### **Exposure Controls**

**Appropriate Engineering Controls:** Do not allow ventilation equipment to draw material odors indoors.

**Personal Protective Equipment:** Gloves. Protective goggles. Protective clothing.



**Hand Protection:** Wear chemically resistant materials and fabrics.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

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

**Thermal Hazard Protection:** Wear suitable protective clothing.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink, or smoke during use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### **Information on Basic Physical and Chemical Properties**

Physical State	: Liquid
Appearance	: Dark brown
Odor	: Petroleum distillates

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<b>Boiling Point</b>	: 343°C (650°F)
<b>Flash Point</b>	: <400°F / <204°C
<b>Auto-ignition Temperature</b>	: <700°F / <371°C
<b>Specific Gravity</b>	: >1.0
<b>Solubility</b>	: partly miscible
<b>Volatile Organic Compounds</b>	: 0.0 g/L

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** None under normal processing.

**Conditions to Avoid:** Temperatures below 0°C.

**Incompatible Materials:** None known.

**Hazardous Decomposition Products:** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information On Toxicological Effects - Product

**Acute Toxicity:** Not classified.

**LD50 and LC50 Data:** Not available.

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** Not classified.

**Germ Cell Mutagenicity:** May cause genetic defects.

**Teratogenicity:** Not available.

**Carcinogenicity:** May cause cancer.

**Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs through prolonged or repeated exposure.

**Reproductive Toxicity:** May damage fertility or the unborn child.

**Aspiration Hazard:** May be fatal if swallowed and enters airways.

**Specific Target Organ Toxicity (Single Exposure):** Not classified.

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation. May cause drowsiness or dizziness.

**Symptoms/Injuries After Skin Contact:** Causes skin irritation.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation.

**Symptoms/Injuries After Ingestion:** May be fatal if swallowed and enters airways.

**Chronic Symptoms:** May cause genetic defects. May cause cancer.

### Information on Toxicological Effects – Ingredient(s)

**LD50 and LC50 Data:**

<b>Asphalt (8052-42-4)</b>	
LD50 Oral Rat	>5000 mg/kg
LD50 Dermal Rabbit	>2000 mg/kg
IARC Group	2B
National Toxicity Program Status	Twelfth Report- Items under consideration

<b>Stoddard solvent (8052-41-3)</b>	
LD50 Oral Rat	>5 g/kg
LD50 Dermal Rabbit	>3 mg/kg

<b>Solvent naphtha, petroleum, light aromatic (64742-95-6)</b>	
LD50 Dermal Rabbit	>2000 mg/kg
LC50 Inhalation Rat (ppm)	3400 ppm/4h

<b>Attapulgate (12174-11-7)</b>	
IARC Group	2B, 3

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

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<b>Stoddard solvent (8052-41-3)</b>	
LC50 Fish 1	.42 mg/l

<b>Solvent naphtha, petroleum, light aromatic (64742-95-6)</b>	
LC50 Fish 1	9.22 mg/l (Exposure time: 96 h – Species: Oncornhynchus mykiss)
EC50 Daphnia 1	6.14 mg/l (Exposure time: 96 h – Species: Daphnia magna)

### Persistence and Degradability

Not available

### Bioaccumulative Potential

<b>Asphalt (8052-42-4)</b>	
BCF fish 1	(No bioaccumulation expected)
Log Pow	>6

<b>Stoddard solvent (8052-41-3)</b>	
Log Pow	3.16 (Octanol/water partition coefficient 3.16/7.06)

### Mobility in Soil

No additional information available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Additional Information:** Empty containers should be taken for local recycling, recovery or waste disposal.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 In Accordance with DOT

**Proper Shipping Name** : NOT REGULATED  
**Hazard Class** :  
**Identification Number** : UN1999  
**Label Codes** :  
**Packing Group** :  
**ERG Number** :



### 14.2 In Accordance with IMDG

**Proper Shipping Name** : TARS, LIQUID  
**Hazard Class** : 3  
**Identification Number** : UN1999  
**Packing Group** : III  
**Label Codes** : 3  
**EmS-No. (Fire)** : F-E  
**EmS-No. (Spillage)** : S-E  
**MFAG Number** : 130



### 14.3 In Accordance with IATA

**Proper Shipping Name** : TARS, LIQUID  
**Packing Group** : III  
**Identification Number** : UN1999  
**Hazard Class** : 3  
**Label Codes** : 3  
**ERG Code (IATA)** : 3L

### 14.4 In Accordance with TDG

**Proper Shipping Name** : NOT REGULATED  
**Packing Group** :  
**Hazard Class** :  
**Identification Number** : UN1999

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Label Codes :

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

##### Asphalt (8052-42-4)

Listed on the United States TSCA

##### Stoddard solvent (8052-41-3)

Listed on the United States, TSCA (Toxic Substances Control Act)

##### Solvent naphtha, petroleum, light aromatic (64742-95-6)

Listed on the United States, TSCA (Toxic Substances Control Act) Inventory

#### US State Regulations

##### Attapulgit (12174-11-7)

U.S. - California - Proposition 65 - Carcinogens List

WARNING: This product contains chemicals known to the State of California to cause cancer

##### Asphalt (8052-42-4)

RTK - U.S. - Massachusetts - Right To Know List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

##### Stoddard solvent (8052-41-3)

RTK - U.S. - Massachusetts - Right To Know List

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

#### Canadian Regulations



##### Asphalt (8052-42-4)

Listed on the Canadian DSL (Domestic Substances List) Inventory

##### Stoddard solvent (8052-41-3)

Listed on the Canadian DSL (Domestic Substances List) Inventory; Listed on the Canadian Ingredient Disclosure List

WHMIS Classification

Class B Division 3 - Combustible Liquid

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

##### Solvent naphtha, petroleum, light aromatic (64742-95-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification

Class B Division 3 - Combustible Liquid

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 03/16/2017

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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### **Party Responsible for the Preparation of This Document**

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3800 East 91<sup>st</sup> Street

Cleveland, Ohio 44105-2197

T-800-762-8225

*This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety, and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.*

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