



# 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: 06/01/15

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)

Flam. Liq. 2	H225
Flam. Liq. 3	H226
Asp. Tox. 1	H304
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
STOT SE 3	H336
Muta 1B	H340
Carc. 1B	H350
Carc. 2	H351
Repr. 2	H361
Aquatic Acute 1	H400
Aquatic Acute 2	H401
Aquatic Chronic 2	H411

#### Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Danger

##### Hazard Statements (GHS-US)

: H225-Highly flammable liquid and vapour  
H226-Flammable liquid and vapour  
H304-May be fatal if swallowed and enters airways  
H315-Causes skin irritation  
H319-Causes serious eye irritation  
H336-May cause drowsiness or dizziness  
H340-May cause genetic defects by route of exposure if conclusively proven that no other route applies  
H350-May cause cancer by route of exposure if conclusively proven that no other route applies  
H351-Suspected of causing cancer by route of exposure if conclusively proven that no other route applies  
H361-Suspected of damaging fertility or the unborn child effect if known by route

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of exposure if conclusively proven that no other route applies

H400-Very toxic to aquatic life

H401-Toxic to aquatic life

H411-Toxic to aquatic life with long lasting effects

### Precautionary Statements (GHS-US)

- : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P281 - Use personal protective equipment as required.  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 - IF exposed or concerned: Get medical advice/attention.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instructions on this label).  
P331 - Do NOT induce vomiting.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P370 + P378 - In case of fire: Use for extinction.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 - Store in a well-ventilated place. Keep cool.  
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	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 Carc. 2, H351

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Aluminum Trihydrate	(CAS No) 21645-51-2	15-25	
Stoddard solvent	(CAS No) 8052-41-3	10-20	Flam. Liq. 3, H226 Muta 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Petroleum naphtha, light aromatic	(CAS No) 64742-95-6	1-5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Attapulgate	(CAS No) 12714-11-7	2-8	Carc. 2, H351

Full text of H-Phrases: See Section 16

## 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, seek medical advice (show the label where possible). If exposed or concerned: Get medical advice/attention.

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**First-aid Measures After Skin Contact:** Wash off immediately with soap and water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.

**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:** May cause skin irritation.

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

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

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

**Unsuitable Extinguishing Media:** Do not use solid water stream as it may scatter and spread fire.

### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Highly flammable liquid and vapor.

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

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

### Advice for Firefighters

**Precautionary Measures Fire:** Not available

**Firefighting Instructions:** Exercise caution when fighting any chemical fire.

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

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

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### 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**

**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>

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### 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
Odor Threshold	: Not available
pH	: Not available
Relative Evaporation Rate (butyl acetate = 1)	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: 343°C (650°F)
Flash Point	: <400°F / <204°C
Auto-ignition Temperature	: <700°F / <371°C
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 68°F (20°C)	: Not available
Relative Density	: Not available
Specific Gravity	: >1.0
Solubility	: partly miscible
Partition coefficient: n-octanol/water	: Not available
Viscosity (Brookfield RV6, 20 RPM, 75°F)	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not available
Explosion Data – Sensitivity to Static Discharge	: Not available
Volatile Organic Compounds	: 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.

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**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**

<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)

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### 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

**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

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### US State Regulations

<b>Attapulgite (12174-11-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	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
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### 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
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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** : 05/13/2015

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

### Party Responsible for the Preparation of This Document

The Garland Company, Inc.  
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.*

North America GHS US 2015 & WHMIS