



Revitalizer®

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: 06/01/2015

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Revitalizer®

Product Code: 5702

Intended Use of the Product

Fiber-reinforced, asphalt maintenance coating. For professional use only.

Name, Address, and Telephone of the Responsible Party

Manufacturer

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

Supplier

The Garland Company, Inc.
3800 East 91st 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. 3	H226
Asp. Tox. 1	H304
Eye Irrit. 2A	H319
Mutagenicity, 1B	H340
Carc., 1B	H350
Aquatic Acute 1	H400
Aquatic Chronic 3	H412

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

- : H226 – Flammable liquid and vapor.
- : H304 – May be fatal if swallowed and enters airways
- : H319 – Causes serious eye irritation.
- : H340 – May cause genetic defects.
- : H350 – May cause cancer.
- : H400 – Very toxic to aquatic life.
- : H412 – Harmful 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.
- : P264 – Wash hands, forearms, and other exposed areas thoroughly after handling.
- : P273 – Avoid release to the environment.
- : P280 – Wear protective gloves/protective clothing/eye protection/face protection.
- : P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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P303+P361+P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P331 – Do NOT induce vomiting.
P337+P313 – If eye irritation persists: Get medical advice/attention.
P370+P378 – In case of fire: use appropriate media to extinguish.
P391 – Collect spillage.
P403+P235 – Store in a well-ventilated place. Keep cool.
P405 – Store locked up.
P501 – Dispose of contents/container according to local, regional, national, and international regulations.

Other Hazards

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Petroleum Asphalt	(CAS No) 8052-42-4	40-60	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 Carc. 2, H351
Stoddard Solvent	(CAS No) 8052-41-3	15-30	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Attapulgit	(CAS No) 12174-11-7	1-5	Carc. 2, H351
1,3,5-Trimethylbenzene	(CAS No) 108-67-8	1-5	Flam. Liq. 3, H226 Acute Tox. 4, H334 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
Calcium Carbonate	(CAS No) 1317-65-3	2-5	
Cellulose	(CAS No) 9004-34-6	1-5	Comb. Dust, H232
1,2,4-trimethylbenzene	(CAS No) 95-63-6	1-3	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation: Vapor), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Quartz (Crystalline Silica)	(CAS No) 14808-60-7	0.1-1	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

Full text of H-Phrases: See Section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

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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). If exposed or concerned: Get medical advice/attention.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. If exposed or concerned: Get medical advice/attention.

First-aid Measures After Skin Contact: Immediately flush skin with plenty of water. Remove contaminated clothing. Get medical attention immediately. Wash clothing separately before reuse.

First-aid Measures After Eye Contact: Immediately flush eyes with plenty of tempered water (at least 15-20 minutes) lifting upper and lower eye lids occasionally. Get immediate medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects, Both Acute and Delayed

General: May be fatal if swallowed and enters airways. Causes serious eye irritation. Causes skin irritation.

Symptoms/Injuries After Inhalation: May cause cancer by inhalation.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: Causes eye irritation.

Symptoms/Injuries After Ingestion: May be fatal if swallowed and 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: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use water jet. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor.

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

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

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 dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of sulfur and/or nitrogen. Hydrogen sulfide and other sulfur-containing gases can evolve from this product particularly at elevated temperatures. Corrosive vapors.

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: Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing vapor, mist, spray. Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice.

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 proper PPE.

Emergency Procedures: Ventilate area. Evacuate unnecessary personnel. Eliminate ignition sources. Stop leak if safe to do so. Prevent entry to sewers and public waters.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material.

Methods for Cleaning Up: Collect spillage. Clear up spills immediately and dispose of waste safely.

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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Precautions for Safe Handling: Handle empty containers with care because residual vapors are flammable. Contains Sulfur, may release small amounts of hydrogen sulfide. Hydrogen sulfide is a highly flammable, explosive gas under certain conditions, is a toxic gas, and may be fatal. Gas can accumulate in the headspace of closed containers, use caution when opening sealed containers. Heating the product or containers can cause thermal decomposition of the product and release hydrogen sulfide.

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 again when leaving work. Contaminated work clothing should not be allowed out of the workplace.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment.

Storage Conditions: Keep in properly labeled containers. Keep tightly closed in a cool dry well-ventilated place. Use explosion-proof electrical, lighting, and ventilating equipment.

Incompatible Materials: Strong acids, strong bases. Strong oxidizers.

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

Specific End Use(s)

Liquid Waterproofing Membrane

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Petroleum Asphalt (8052-42-4)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³
Mexico	OEL TWA (mg/m ³)	5 mg/m ³
Mexico	OEL STEL (mg/m ³)	10 mg/m ³
Ontario	OEL TWA (mg/m ³)	0.5 mg/m ³

Stoddard Solvent (8052-41-3)		
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	350 mg/m ³
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	1,800 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	2,900 mg/m ³
USA OSHA	OSHA PEL (TWA)(ppm)	500 ppm
USA IDLH	US IDLH (mg/m ³)	20,000 mg/m ³
Mexico	OEL TWA (mg/m ³)	523 mg/m ³
Mexico	OEL TWA (ppm)	500 ppm
Ontario	OEL TWA (mg/m ³)	525 mg/m ³ (140C Flash aliphatic solvent)

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

1,3,5-trimethylbenzene (108-67-8)		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	125 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	25 ppm

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA)(mg/m ³)	0.05 mg/m ³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	0.1 mg/m ³ (respirable fraction)
Ontario	OEL TWA (mg/m ³)	0.1 mg/m ³ (respirable fraction)

Calcium Carbonate (1317-65-3)		
USA NIOSH	ACGIH TWA (mg/m ³)	5 mg/m ³ (respirable fraction)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust)

1,2,4-trimethylbenzene (95-63-6)		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	125 mg/m ³

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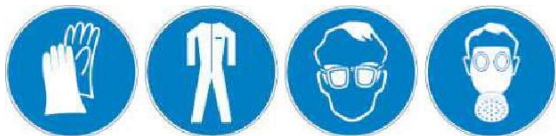
Revision Date: 05/13/2015 Date of Issue: 06/01/2015

USA NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
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Exposure Controls

Appropriate Engineering Controls: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Take precautionary measures against static discharges. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapors may be released.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Hand Protection: Protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: When manufacturing or handling product in large quantities and vapors or mists may be generated, maintain airborne concentrations below recommended limits. Workplace risk assessments should be completed before specifying and implementing respirator usage. NIOSH approved respirators for protection should be used if respirators are found to be necessary.

Other Information: When using, do not eat, drink, or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Black
Odor	: Mineral Spirits
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	: Not available
Flash Point	: 105°F (41°C)
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: 0.8%
Upper Flammable Limit	: 7.0%
Vapor Pressure	: 5 mmHg
Relative Vapor Density at 68°F (20°C)	: Not available
Relative Density	: Not available
Specific Gravity	: 0.95
Solubility	: Insoluble
Partition coefficient: n-octanol/water	: Not available
Viscosity (Brookfield RV6, 20 RPM, 75°F)	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact
Explosion Data – Sensitivity to Static Discharge	: Not available
Volatile Organic Compounds	: <250 g/L
Volatiles	: 28-32%

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Flammable liquid and vapor. Product is stable under recommended handling and storage conditions (see Section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

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

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). May release flammable gases. Contains a small amount of hydrogen sulfide. Hydrogen sulfide is a fatal, and highly flammable gas with a rotten egg odor that quickly causes odor fatigue. Heating of this product and storage under elevated temperatures or over long periods of time may release higher amounts of hydrogen sulfide. Hydrogen sulfide is also an asphyxiate.

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SECTION 11: TOXICOLOGICAL INFORMATION

Information On Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified

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 (inhalation).

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

Reproductive Toxicity: Not classified.

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.

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 and enters airways.

Chronic Symptoms: May cause cancer. May cause genetic damage.

Information on Toxicological Effects – Ingredient(s)

LD50 and LC50 Data

Petroleum Asphalt (8052-42-4)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg

Stoddard Solvent (8052-41-3)	
LD50 Oral Rat	>5 g/kg Behavioral somnolence
LD50 Dermal Rabbit	> 3 mg/kg

Benzene, 1,2,4-trimethyl- (95-63-6)	
LD50 Oral Rat	6000 mg/kg
LD50 Dermal Rabbit	> 3160 mg/kg
LC50 Inhalation Rat	18 g/m ³ (Exposure time: 4 h)

1,3,5-trimethylbenzene (108-67-8)	
LC50 Inhalation Rat	24 g/m ³ (Exposure time: 4 h)

Quartz (14808-60-7)	
LD50 Oral Rat	>500 mg/kg

Cellulose (9004-34-6)	
LD50 Oral Rat	>5000 mg/kg
LD50 Dermal Rabbit	>2000 mg/kg
LC50 Inhalation Rat	>5800 mg/m ³ (Exposure time: 4 h)

Carcinogenicity Data:

Petroleum Asphalt (8052-42-4)	
IARC Group	2B
National Toxicity Program (NTP) Status	Twelfth Report – Items under consideration

Quartz, silica (14808-60-7)	
IARC Group	1
National Toxicity Program (NTP) Status	Known Human Carcinogens

Attapulgate (12174-11-7)	
IARC Group	
National Toxicity Program (NTP) Status	

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IARC Group	1
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SECTION 12: ECOLOGICAL INFORMATION

Toxicity - Ingredients

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: Prevent runoff from entering drains, sewers, or waterways.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT

Proper Shipping Name : Non-Regulated , non-bulk

In Accordance with IMDG

Proper Shipping Name : Tars, liquid

Hazard Class : 3

Identification Number : UN1999

Packing Group : III

EmS No. : F-E, S-E



In Accordance with IATA

Proper Shipping Name : Tars, liquid

Hazard Class : 3

Identification Number : UN1999

Packing Group : III

ERG Code : 130



In Accordance with TDG

Proper Shipping Name : Not Regulated, non-bulk

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

SARA Section 311/312 Hazard Classes

Fire hazard

Immediate (acute) health hazard

Delayed (chronic) health hazard

Petroleum Asphalt (8052-42-4)

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

1,3,5-trimethylbenzene (108-67-8)

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

EPA TSCA Regulatory Flag

T – T – indicates a substance that is the subject of a Section 4 test rule under TSCA.

Cellulose (9004-34-6)

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

Attapulgate (12174-11-7)

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

Stoddard Solvent (8052-41-3)

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

2-Butoxyethanol (111-76-2)

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

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US State Regulations

Petroleum 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

Hydrogen sulfide (7783-06-4)

RTK – U.S. – Massachusetts – Right To Know List
RTK – U.S. – New Jersey – Right To Know Hazardous Substance List
RTK – U.S. – Pennsylvania – Right To Know Environmental Hazard 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

1,3,5-trimethylbenzene (108-67-8)

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

Cellulose (9004-34-6)

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

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.

Quartz (14808-60-7)

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

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

Canadian Regulations

Revitalizer® Metal

WHMIS Classification

Class B Division 3 – Combustible liquid
Class D Division 2 Subdivision B – Toxic material



Petroleum Asphalt (8052-42-4)

Listed on the Canadian DSL (Domestic Substances List) Inventory

Hydrogen Sulfide (7783-06-4)

Listed on the Canadian DSL (Domestic Substances List) Inventory

Listed on the Canadian IDL (Ingredient Disclosure List)

WHMIS Classification

Class A – Compressed Gas
Class B Division 3 – Combustible Liquid
Class D Division 1 Subdivision A – Very toxic material causing immediate and serious toxic effects
Class D Division 2 Subdivision B – Toxic material causing other toxic effects

1,3,5-trimethylbenzene (108-67-8)

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Listed on the Canadian DSL (Domestic Substances List) Inventory	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 0.1%	
WHMIS Classification	Class B Division 3 – Combustible Liquid

Stoddard Solvent (8052-41-3)	
Listed on the Canadian DSL (Domestic Substances List) Inventory	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1%	
WHMIS Classification	Class B Division 3 – Combustible Liquid Class D Division 2 Subdivision B – Toxic material causing other toxic effects

Cellulose (9004-34-6)	
Listed on the Canadian DSL (Domestic Substances List) Inventory	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria.
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	:	05/15/2015
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 91st 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