



Gravitop Asphalt

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: 06/05/2017

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Gravitop Asphalt

Product Code: 7721

Intended Use of the Product

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. 2	H225
Asp. Tox. 1	H304
Eye Irrit. 2A	H319
STOT SE 3	H335
Mutagenicity, 1B	H340
Carc., 1B	H350
STOT RE 1	H372
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

Hazard Statements (GHS-US)

- Danger**
- H225 – Highly flammable liquid and vapor.
 - H304 – May be fatal if swallowed and enters airways.
 - H319 – Causes serious eye irritation.
 - H335 – May cause respiratory irritation.
 - H340 – May cause genetic defects.
 - H350 – May cause cancer.
 - H372 – Causes damage to organs through prolonged or repeated exposure by route of exposure if conclusively proven that no other route applies.
 - H400 – Very 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.

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P260 - Do not breathe mist.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
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.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
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.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
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 + 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 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	30-60	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 Carc. 2, H351
Stoddard Solvent	(CAS No) 8052-41-3	10-30	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Heavy Paraffinic Distillate Solvent Extract	(CAS No) 64742-04-7	10-30	
Calcium Carbonate	(CAS No) 1317-65-3	5-10	
Hydrous Alumino Silicate	(CAS No) 12174-11-7	1-5	
Magnesium Carbonate	(CAS No) 546-93-0	1-5	
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 dry chemical, Carbon dioxide (CO₂), Water spray, Alcohol-resistant foam.

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: Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from open flames, hot surfaces and sources of ignition. Wear personal protective equipment. Do not breathe vapors or spray mist. Take precautionary measures against static discharges. Use product only in closed system.

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

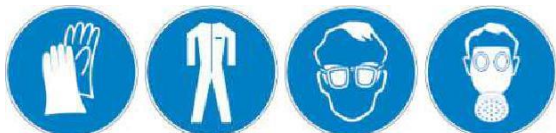
Control Parameters

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
Hydrogen sulfide	TWA: 10 ppm STEL: 15 ppm	Ceiling: 20 ppm	STEL: 15 ppm STEL: 21 mg/m ³ TWA: 10 ppm TWA: 14 mg/m ³	STEL: 15 ppm STEL: 21 mg/m ³ TWA: 10 ppm TWA: 14 mg/m ³
Stoddard solvent	TWA: 100 ppm	TWA: 2900 mg/m ³ TWA: 500 ppm	TWA: 525 mg/m ³	STEL: 200 ppm STEL: 1050 mg/m ³ TWA: 523 mg/m ³ TWA: 100 ppm
Petroleum Asphalt	TWA: 0.5 mg/m ³		TWA: 0.5 mg/m ³	STEL: 10 mg/m ³ TWA: 5 mg/m ³
Calcium Carbonate		TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m ³	STEL: 20 mg/m ³ TWA: 10 mg/m ³
Silica, crystalline	TWA: 0.025 mg/m ³		TWA: 0.10 mg/m ³	TWA: 0.1 mg/m ³
Magnesium Carbonate		TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m ³	STEL: 20 mg/m ³ TWA: 10 mg/m ³
Quartz (Crystalline Silica)	TWA: 0.025 mg/m ³		TWA: 0.10 mg/m ³	TWA: 0.1 mg/m ³

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

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Appearance	: Black
Odor	: Petroleum distillates
Flash Point	: 120°F (49°C)
Vapor Pressure	: 5 mmHg
Specific Gravity	: 1.03
Solubility	: Insoluble
Explosion Limits	: Upper: 5% - Lower: .8%
Volatile Organic Compounds	: <250 g/L
Volatiles	: 15-25%

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: No materials to be especially mentioned.

Hazardous Decomposition Products: Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Diethylene glycol	12565 mg/kg Rat	11890 mg/kg Rabbit	
Heavy Paraffinic Distillate Solvent Extract	2000 mg/kg Rat	2000 mg/kg Rabbit	
Hydrogen sulfide			0.701 mg/L Rat 4 h 0.99 mg/L Rat 1 h
Petroleum Asphalt	5000 mg/kg Rat	2000 mg/kg Rabbit	
Pseudocumene	3400 mg/kg Rat	3160 mg/kg Rabbit	18 g/m ³ Rat 4 h
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-	1310 mg/kg Rat	2 mL/kg Rabbit	
Silica, crystalline	500 mg/kg Rat		
Quartz (Crystalline Silica)	500 mg/kg Rat		

Chronic Toxicity

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

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
Silica, crystalline	A2	Group 1	Known	X	
Hydrous Alumino Silicate		Group 2B		X	
Quartz (Crystalline Silica)	A2	Group 1	Known	X	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

Diethylene glycol

Microtox Data

Photobacterium phosphoreum EC50=29228 mg/L (15 min)

Water Flea Data

water flea EC50=0.3 mg/L (96 h)

Daphnia magna EC50=84000 mg/L (48 h)

Heavy Paraffinic Distillate Solvent Extract

Microtox Data

Pseudomonas putida EC50>1000 mg/L (16 h)

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Diethylene glycol

Water Flea Data

Daphnia magna EC50=1.4 mg/L (48 h)

Hydrogen sulfide

Water Flea Data

Gammarus pseudolimnaeus EC50=0.022 mg/L (96 h)

Pseudocumene

Water Flea Data

Daphnia magna EC50=6.14 mg/L (48 h)

Persistence/Degradability

Not available

Bioaccumulation/ Accumulation

Not available

Mobility in Environmental Media

Not available

Diethylene glycol

log Pow = -1.98

Hydrogen sulfide

log Pow = 0.45

Petroleum Asphalt

log Pow = 6

Pseudocumene

log Pow = 3.63

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 for surface transportation (no hazard label required for surface transportation via motor freight). Not 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)

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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

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

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

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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

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

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

Revision date : 06/05/2017

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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

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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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