

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 08.21.2026

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Flashing Bond ®

SECTION 1: Identification

Product Identifier

Product Name: Flashing Bond ®

Product code: 7110

Recommended Use of the Chemical and Restrictions on Use:

Recommended Uses: Cold-applied, trowel-grade mastic designed for patching and leak repair on asphalt roofing systems.

Restrictions on Use: For profesional use only.

Manufacturer or Supplier Details

Manufacturer:

United States

The Garland Company

3800

East 91st Street Cleveland, OH 44105

2166417500

garlandco.com

Emergency Telephone Number:

United States

ChemTrec

1-800-762-8225 (24/7)

SECTION 2: Hazard Identification

Classification of the chemical in accordance with paragraph (d) of § 1910.1200:

Flammable liquids, category 3

Skin irritation, category 2

Serious eye damage, category 1

Skin sensitization, category 1A

Carcinogenicity, category 1A

Specific target organ toxicity - single exposure, category 3, narcotic effects

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Specific target organ toxicity - repeated exposure, category 1

Label elements

Hazard Symbol(s):



Signal Word: Danger

Hazard statement(s):

H226 Flammable liquid and vapor

H315 Causes skin irritation

H318 Causes serious eye damage

H317 May cause an allergic skin reaction

H350 May cause cancer.

H336 May cause drowsiness or dizziness

H335 May cause respiratory irritation

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H372 Causes damage to organs by repeated or prolonged exposure.

Precautionary Statement(s):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating, and lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

P264 Wash skin thoroughly after handling.

P260 Do not inhale dust, fumes, gas, mist, vapors or spray.

P270 Do not eat, drink or smoke when using this product.

P261 Avoid breathing dust, fumes, gas, mist, vapours or spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P271 Use only outdoors or in a well-ventilated area.

P303+P361+P353 IN CASE OF SKIN CONTACT (or with hair): Immediately remove all contaminated clothing. Rinse skin with water.

P370+P378 In case of fire: Use dry chemical, sand, earth or carbon dioxide for extinction.

P302+P352 IF ON SKIN: Wash with plenty of water/...

P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P308+P313 If exposed or concerned: Get medical advice/attention.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor/...if you feel unwell.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents and container in accordance with federal, state and local regulations.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 8052-42-4	Asphalt	26.4-70.8
CAS Number: 64742-93-4	Asphalt, Oxidized	<40.4
CAS Number: 8052-41-3	Stoddard Solvent with < 0.3% Benzene content	10-31.6
CAS Number: 8031-18-3	Fuller's Earth	10.8-16

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CAS Number: 14808-60-7	Silica, crystalline quartz (non respirable)	<1.6
CAS Number: 91-20-3	Naphthalene	0.0033-0.057

Additional information: No additional information

SECTION 4: First Aid Measures

Description of Necessary Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance

After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention

After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention

After Eye Contact:

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

After Ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center.

Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Product is flammable. Exposure to sources of ignition may cause physical injury

Skin contact may result in redness, pain, burning and inflammation

Eye contact may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis

Inhalation may have adverse effects on the central nervous system. Symptoms may include drowsiness, dizziness, headache, nausea and lowering of consciousness. Acute overexposure via inhalation may result in respiratory distress, confusion and unconsciousness

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract

Delayed Symptoms and Effects:

Causes damage to organs through prolonged or repeated exposure. Effects are dependent on exposure (dose, concentration, contact time)

Effects are dependent on exposure (dose, concentration, contact time)

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Exposure may cause cancer. Effects are dependent on exposure (dose, concentration, contact time)

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Immediate Medical Attention:

Skin/eye burns require immediate treatment
In case of eye contact, seek prompt medical attention while rinsing is continued
Overexposure via inhalation requires urgent medical treatment
If respiratory symptoms persist, seek medical attention

Special Treatment:

No additional information.

Notes for the Doctor:

Treat symptomatically

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Dry chemical, CO₂, water spray or alcohol-resistant foam
Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam

Unsuitable Extinguishing Media:

Do not use water jet

Specific Hazards Arising From The Chemical:

Flammable liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation

Thermal decomposition may produce irritating/toxic fumes/gases

Special Protective Equipment and Precautions for Fire-Fighters

Special Protective Equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode

Special precautions

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so
Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

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Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided

Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for future disposal. Dispose of in accordance with all applicable regulations (see Section 13)

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13)

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13)

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges. Handle containers with caution. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Do not get in eyes. Avoid contact with skin and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

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SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
NIOSH	Stoddard Solvent with	8052-41-3	REL-TWA: 350 mg/m ³ (up to 10 hr)
	Stoddard Solvent with	8052-41-3	IDLH: 20000 mg/m ³
	Stoddard Solvent with	8052-41-3	Ceiling Limit: 1800 mg/m ³ (15 min)
	Asphalt	8052-42-4	Ceiling Limit: 5 mg/m ³ (fumes [15 min])
	Asphalt, Oxidized	64742-93-4	Ceiling Limit: 5 mg/m ³ (15-minute, fume)
	Naphthalene	91-20-3	IDLH: 250 ppm
	Naphthalene	91-20-3	TWA: 10 ppm (50 mg/m ³)
	Naphthalene	91-20-3	STEL: 15 ppm (75 mg/m ³)
	Silica, crystalline quartz (non respirable)	14808-60-7	IDLH: 50 mg/m ³ (Respirable dust)
	Silica, crystalline quartz (non respirable)	14808-60-7	REL-TWA: 0.05 mg/m ³ (Respirable dust [up to 10 hr])
United States(California)	Stoddard Solvent with	8052-41-3	8-Hour TWA-PEL: 525 mg/m ³ (100 ppm)
	Asphalt	8052-42-4	8-Hour TWA: 5 mg/m ³ (Asphalt (petroleum) fumes)
	Naphthalene	91-20-3	PEL: 0.1 ppm (0.5 mg/m ³)
	Silica, crystalline quartz (non respirable)	14808-60-7	8-Hour TWA-PEL: 0.05 mg/m ³ (Respirable dust)
ACGIH	Stoddard Solvent with	8052-41-3	TLV-TWA: 100 ppm (8hr)
	Asphalt	8052-42-4	8-Hour TWA: 0.5 mg/m ³ (fume, as benzene-soluble aerosol, inhalable fraction)
	Asphalt, Oxidized	64742-93-4	8-Hour TWA: 0.5 mg/m ³ (nhalable particulate matter)
	Naphthalene	91-20-3	TWA: 10 ppm
	Silica, crystalline quartz (non respirable)	14808-60-7	8-Hour TWA: 0.025 mg/m ³ (Respirable fraction)
OSHA	Stoddard Solvent with	8052-41-3	PEL: 2900 mg/m ³ (500 ppm)
	Naphthalene	91-20-3	TWA: 10 ppm (50 mg/m ³ (PEL))
	Naphthalene	91-20-3	STEL: 15 ppm (75 mg/m ³)
	Silica, crystalline quartz (non respirable)	14808-60-7	Level Limit Value: 0.1 mg/m ³ (Respirable [Action level])
	Silica, crystalline quartz (non respirable)	14808-60-7	8-Hour TWA-PEL: 0.05 mg/m ³ (Respirable)

Biological Limit Values:

Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
ACGIH	Asphalt	8052-42-4	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	ESW	2.5 µg/l

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Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
	Naphthalene	91-20-3	1-Naphthol, with hydrolysis + 2-Naphthol, with hydrolysis nonquantitative, nonspecific	None	EOS	

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Individual Protection Measures, Such as Personal Protective Equipment

Eye and Face Protection:

Use safety glasses with side shields or goggles. Consider the use of a face shield for splash protection. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical state	Liquid
Color	Black
Odor (includes odor threshold)	N/Av
Melting point/freezing point	N/Av

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Initial boiling point/range	149-199 C
Flammability	N/Av
Upper flammability/explosive limit	N/Av
Lower flammability/explosive limit	N/Av
Flash point	54.4 C
Auto-ignition temperature	N/Av
Decomposition temperature	N/Av
pH	N/Av
Kinematic viscosity	N/Av
Solubilities	N/Av
Partition coefficient (n-octanol/water)	Insoluble
Vapor pressure (includes evaporation rate)	N/Av
Density and/or relative density	1.08
Relative vapor density	N/Av
Particle characteristics	N/Av

Other Information

No additional information.

SECTION 10: Stability and Reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions, including those associated with foreseeable emergencies:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials. Vapor accumulation in low or confined areas.

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible Materials:

None known.

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Route	Result
Stoddard Solvent with < 0.3% Benzene content	oral	LD50 Rat: > 5000 mg/kg
	inhalation	LC50 Rat: > 5.5 mg/L (4 hr [vapour])
	dermal	LD50 Rabbit: > 3000 mg/kg

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Name	Route	Result
Asphalt	oral	LD50 Rat: >5000 mg/kg
	inhalation	LC50 Rat: >94.4 mg/m ³ (4.5 h [mixed aerosol and vapor, Read-across substance data])
	dermal	LD50 Rabbit: >2000 mg/kg
Asphalt, Oxidized	oral	LD50 Rat: > 5000 mg/kg
	dermal	LD50 Rabbit: > 2000 mg/kg
	inhalation	LC50 Rat: > 94.4 mg/m ³ (4.5 hr [mixed aerosol and vapor])
Naphthalene	oral	LD50 Mouse: 533 mg/kg
	dermal	LD50 Rat: >2500 mg/kg
	inhalation	LC50 Rat: >0.4 mg/L (4 hr [Vapor])

Skin Corrosion/Irritation

Assessment:

Causes skin irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Stoddard Solvent with < 0.3% Benzene content	Causes skin irritation.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye damage.

Product Data:

No data available.

Substance Data:

Name	Result
Stoddard Solvent with < 0.3% Benzene content	Causes serious eye irritation.

Respiratory or Skin Sensitization

Assessment:

May cause an allergic skin reaction.

Product Data:

No data available.

Substance Data: No data available.

Carcinogenicity

Assessment:

May cause cancer.

Product Data: No data available.

Substance Data:

Name	Species	Result
Asphalt, Oxidized	Not Applicable	Certain extracts of asphalt fumes are possibly carcinogenic to humans.
Naphthalene		Suspected of causing cancer.

International Agency for Research on Cancer (IARC):

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Name	Classification
Stoddard Solvent with < 0.3% Benzene content	Not Applicable
Asphalt	Group 2B
Asphalt, Oxidized	Group 2A
Naphthalene	Group 2B
Silica, crystalline quartz (non respirable)	Group 1

National Toxicology Program (NTP):

Name	Classification
Stoddard Solvent with < 0.3% Benzene content	Not Applicable
Asphalt	Not Applicable
Asphalt, Oxidized	Not Applicable
Naphthalene	Reasonably anticipated to be human carcinogens
Silica, crystalline quartz (non respirable)	Known to be human carcinogens

OSHA Carcinogens:

Ingredient Name	CAS	OSHA Carcinogens Status
Naphthalene	91-20-3	Yes
Silica, crystalline quartz (non respirable)	14808-60-7	Yes

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

Assessment:

May cause drowsiness or dizziness.

May cause respiratory irritation.

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment:

Causes damage to organs through prolonged or repeated exposure.

Product Data:

No data available.

Substance Data:

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Name	Result
Stoddard Solvent with < 0.3% Benzene content	Causes damage to the Central Nervous System through prolonged or repeated exposure via inhalation.
Silica, crystalline quartz (non respirable)	If material is processed (e.g. grinding, sanding, cutting), respirable particles of this substance may be released. Chronic exposure to respirable particles of this substance via inhalation may cause silicosis, an incurable lung disease that leads to disability and death. It may also cause COPD (Chronic Obstructive Pulmonary Disease), Lung Cancer, Kidney disease and the development of autoimmune disorders.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data:

Name	Result
Stoddard Solvent with < 0.3% Benzene content	May be fatal if swallowed and enters airways.

Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Interactive effects:

No additional information.

Other Information:

No additional information.

SECTION 12: Ecological Information

Ecotoxicity

Acute (Short-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Stoddard Solvent with < 0.3% Benzene content	Fish LC50 Oncorhynchus mykiss: 2.5 mg/L (96 hr)
	Aquatic Invertebrates LC50 Daphnid: 0.107 mg/L (48 hr [QSAR])
	Aquatic Plants EC50 Green algae: 0.277 mg/L (96 hr [QSAR])
Asphalt	Aquatic Plants EC50 Raphidocelis subcapitata: >1000 mg/L (72 hr [EL50 - growth rate, Read-across substance data])
	Fish LC50 Oncorhynchus mykiss: > 1000 mg/L (96 hr [LL50 - mortality, Read-across substance data])
Naphthalene	Aquatic Plants EC50 Skeletonema costatum: 0.4 - 0.5 mg/L (72 hr [biomass])
	Fish LC50 Oncorhynchus mykiss: 1.6 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 2.16 mg/L (48 hr [mobility])

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

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Name	Result
Stoddard Solvent with < 0.3% Benzene content	Fish NOEC Oncorhynchus mykiss: 0.02 mg/L (30d [QSAR])
	Aquatic Invertebrates NOEC Daphnia magna: 0.1 mg/L (21d [reproduction])
	Aquatic Plants NOEC Green algae: 0.142 mg/L (30d [QSAR])
Asphalt	Fish NOEC Oncorhynchus mykiss: >1000 mg/L (28 d [NOEL - mortality, Read-across substance data])
	Aquatic Invertebrates NOEC Daphnia magna: >= 1000 mg/L (21 d [NOEL - reproduction, Read-across substance data])
Naphthalene	Fish NOEC Oncorhynchus kisutch: 0.37 mg/L (40 d [growth rate])
	Aquatic Invertebrates NOEC Daphnia pulex: 0.59 mg/L (125 d [mortality])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Stoddard Solvent with < 0.3% Benzene content	The substance is readily biodegradable. >63% degradation, measured by CO2 evolution, after 28 days.
Asphalt	Standard biodegradability studies are not applicable to petroleum UVCB substances.
Asphalt, Oxidized	Standard biodegradability studies are not applicable to petroleum UVCB substances.
Naphthalene	The substance is readily biodegradable. > 74% degradation in water, measured by O2 consumption, after 28 days.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Stoddard Solvent with < 0.3% Benzene content	The substance is not expected to bioaccumulate. BCF (aquatic species): 39.66 L/Kg [QSAR].
Asphalt	Standard bioaccumulation studies are not applicable to petroleum UVCB substances.
Asphalt, Oxidized	Standard bioaccumulation studies are not applicable to petroleum UVCB substances.
Naphthalene	The substance has the potential to bioaccumulate (BCF= 36.5 - 168 dimensionless, basis- whole body w.w.).

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Stoddard Solvent with < 0.3% Benzene content	The substance is slightly mobile with a high potential for adsorption to soil and sediment [Koc at 20°C: 1451].
Asphalt	Standard adsorption/desorption studies are not applicable to petroleum UVCB substances.
Asphalt, Oxidized	Standard adsorption/desorption studies are not applicable to petroleum UVCB substances.
Naphthalene	The substance is moderately mobile, therefore, moderate adsorption to soil is expected (Koc =455 at 20 °C).

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Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

Stoddard Solvent with < 0.3% Benzene content	The substance is not PBT.
Asphalt	Standard PBT studies are not applicable to petroleum UVCB substances.
Asphalt, Oxidized	This substance is not PBT.
Naphthalene	The substance is not PBT.

vPvB assessment:

Stoddard Solvent with < 0.3% Benzene content	The substance is not vPvB.
Asphalt	Standard vBvB studies are not applicable to petroleum UVCB substances.
Asphalt, Oxidized	This substance is not vPvB.
Naphthalene	The substance is not vPvB.

Other Adverse Effects: No additional information.

SECTION 13: Disposal Considerations

Disposal Methods:

Dispose in accordance with all applicable federal, state, provincial and local regulations.

Contaminated packaging:

a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	1999
UN Proper Shipping Name	Tars, liquid
UN Transport Hazard Class(es)	3 
Packing Group	None
Environmental Hazards	None
Special Precautions for User	Exempt from TDG regulations for domestic road/rail transport in small means of containment (≤ 450 L) per TDG Section 1.33.DOT Special Provision Note: This product has a flash point above 100°F (38°C) and may be reclassified as a combustible liquid. Per 49 CFR 173.150(f)(1) and (2), it is not regulated as a hazardous material for US domestic ground transportation when shipped in non-bulk packagings (individual containers less than 119 gallons / 450 liters).

International Maritime Dangerous Goods (IMDG)

UN Number	1999
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UN Proper Shipping Name	Tars, liquid
UN Transport Hazard Class(es)	3 
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	1999
UN Proper Shipping Name	Tars, liquid
UN Transport Hazard Class(es)	3 
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	Not Applicable
Ship Type	Not Applicable
Pollution Category	Not Applicable

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals:

91-20-3	Naphthalene	Listed
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CERCLA:

8052-41-3	Stoddard Solvent with < 0.3% Benzene content	Listed	100 lbs for RCRA D001
91-20-3	Naphthalene	Listed	100 lb

RCRA:

8052-41-3	Stoddard Solvent with < 0.3% Benzene content	Listed	D001
91-20-3	Naphthalene	Listed	U165

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

8052-41-3	Stoddard Solvent with < 0.3% Benzene content	Listed
8052-42-4	Asphalt	Listed
64742-93-4	Asphalt, Oxidized	Listed
91-20-3	Naphthalene	Listed
14808-60-7	Silica, crystalline quartz (non respirable)	Listed

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New Jersey Right to Know:

8052-41-3	Stoddard Solvent with < 0.3% Benzene content	Listed
8052-42-4	Asphalt	Listed
64742-93-4	Asphalt, Oxidized	Listed
91-20-3	Naphthalene	Listed
14808-60-7	Silica, crystalline quartz (non respirable)	Listed

New York Right to Know:

8052-41-3	Stoddard Solvent with < 0.3% Benzene content	Listed
8052-42-4	Asphalt	Listed
64742-93-4	Asphalt, Oxidized	Listed
91-20-3	Naphthalene	Listed

Pennsylvania Right to Know:

8052-41-3	Stoddard Solvent with < 0.3% Benzene content	Listed
8052-42-4	Asphalt	Listed
64742-93-4	Asphalt, Oxidized	Listed
91-20-3	Naphthalene	Listed
14808-60-7	Silica, crystalline quartz (non respirable)	Listed

California Proposition 65:

⚠ WARNING: This product can expose you to chemicals including Bitumens, extracts of steam-refined and air refined, Naphthalene and Silica, crystalline (airborne particles of respirable size) which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Additional information: No additional information.

SECTION 16: Other Information

Disclaimer:

This product has been classified in accordance with OSHA HCS 2024 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered 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 materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 0-0-0

HMIS: 0-0-0

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End of Safety Data Sheet