



Safety Data Sheet

Section 1: IDENTIFICATION

Product Identifier: 10-02 Asphalt Sealer (10-02)

Other Identifiers: 10-02 Asphalt Sealer, Asphalt Sealer

Manufacturer/Supplier Identifier:

GIP Paving Inc.
100 Commerce Valley Drive W,
Markham, Ontario L3T 0A1

Information Telephone Number:

(416) 633-9670 Monday – Friday 8AM-5PM

Emergency Telephone Number:

CANUTEC (613) 996-6666, 24HRS

Recommended Use: Asphalt emulsion is a water based suspension of asphalt cement and is used as a binder in asphalt paving applications such as paving roads, driveways, parking lots and other surface, base, or sub-base applications.

Restrictions on Use: None Known


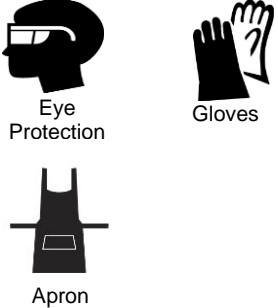
Section 2: HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

Classification:

Acute toxicity (Inhalation)	Category 4
Skin Irritation	Category 3
Eye Irritation	Category 2B
Flammable liquid	Category 1
Carcinogenicity	Category 2

Label Elements:

	<p>DANGER</p>	
	<p>Hot product can cause burns. Extremely flammable liquid and vapour Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes mild skin irritation Causes eye irritation Product may release Hydrogen Sulfide (H₂S) gas.</p> <p>Use proper engineering controls, work practices, and personal protective equipment.</p> <p>Read SDS for details.</p>	

Other Hazards:

10-02 is a black colored liquid that has a petroleum odor. Hot product will cause severe thermal burns. If burned by hot product, cool affected area immediately with cool water. Seek medical attention. When heated, this product may release toxic hydrogen sulfide (H₂S). Prolonged or repeated skin contact can cause drying of the skin which may produce irritation or dermatitis. The product is an extremely flammable liquid. Can accumulate static charge and electrostatic discharge may cause fire.

The International Agency for Research on Cancer (IARC) has concluded that occupational exposures to oxidized asphalt and their emissions during roofing operations are “probably carcinogenic to Humans (Group 2A). IARC concluded that occupational exposures to hard asphalt and their emissions during mastic asphalt work are “possibly carcinogenic to humans” (Group 2B). IARC concluded that occupational exposures to straight-run asphalt and their emissions during paving operations are “possibly carcinogenic to humans” (Group 2B).

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percent (By Weight)	CAS Number
Asphalt Cement (as fume)	40-60	8052-42-4
Mineral Spirits	40-50	64742-48-9



Note: Asphalt is produced from high temperature vacuum distillation of crude oil. Composition varies depending on source of crude and specifications of final product. It can contain trace amounts of sulfur, nitrogen and oxygen compounds as well as trace amounts of heavy metals. Different asphalt grades may contain an anti-stripping additive.

Asphalt products can contain hydrogen sulfide, because it is naturally occurring in crude oil from which asphalt is derived. Hydrogen sulfide can also be present as a by-product of asphalt processing.

Section 4: FIRST AID MEASURES

Potential Health Effects: Risk of injury depends on duration and level of exposure.

First Aid Measures:

Eye Contact For contact with product, flush with large amounts of cool flowing water for at least 15 minutes, including under lids. Seek immediate medical attention.

Skin Contact Wash with cool flowing water and a pH neutral soap or a mild skin detergent. Do not use solvents or thinners to remove product from skin. Seek medical attention for burns, rash, irritation, and dermatitis.

For contact with hot product, immerse or flush skin with cold water for at least 15 minutes. Seek immediate medical attention. If asphalt cement has circumferentially coated a limb or body, then split the asphalt cement longitudinally to avoid a tourniquet effect. Asphalt cement will naturally detach itself over time. Do not attempt to remove asphalt cement that has adhered to skin as this may pull skin away and cause further harm. If no burn has occurred then mineral oil or olive oil may be used to gently dissolve the asphalt cement and then wash gently with soap and water.

Inhalation Move person to fresh air. Seek medical attention.

Ingestion Do not induce vomiting unless medical personnel provide instructions to do so. Never provide anything by mouth to an unconscious person. Seek medical attention or contact poison control center immediately.

Most Important Symptoms and Effects, Acute and Delayed:

Eye Contact Hot product will cause severe thermal burns. Eye contact with 10-02 liquid or vapors can cause moderate eye irritation, redness, and itching. Eye exposures require immediate first aid to prevent damage to the eye.

Skin Contact Direct contact with hot 10-02 will cause severe thermal burns. Repeated or prolonged contact to 10-02 may cause redness, dry skin, discomfort, irritation, sensitivity and dermatitis.

Inhalation Hot 10-02 releases irritating fumes or vapors such as smoke, carbon dioxide, carbon monoxide, and unburned hydrocarbons. Exposure to vapors may



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cause irritation of the nose and throat, and symptoms such as headache, dizziness, nausea, loss of coordination, and drowsiness.

Hydrogen sulfide and other sulfur-containing gases can evolve from this product at elevated temperatures. Hydrogen sulfide can cause respiratory paralysis and death, depending on concentrations and duration of exposure. Do not rely on ability to smell vapors, since odor fatigue rapidly occurs. Effects of overexposure include irritation of the nose and throat, nausea, vomiting and signs of nervous system depression.

Ingestion Do not ingest 10-02. Hot product will cause thermal burns. Ingestion may result in nausea, vomiting, diarrhea and restlessness.

Section 5: FIREFIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media Treat as a highly flammable fuel oil fire. Use appropriate extinguishing media for the size of the fire. Water spray and foam can cause frothing. Use of water on product above 100°C (212°F) can cause product to expand with explosive force. Use Carbon dioxide, dry chemical powder or appropriate foam.

Unsuitable Extinguishing Media Do not spray water onto tanks or vessels containing hot asphalt as water reacts violently with asphalt at elevated temperatures and may result in a steam explosion.

Combustion Products:

Specific Hazards: Toxic gases are produced in fire, such as smoke, fume, CO, CO₂ and H₂S.
Fire may release toxic combustion products such as smoke, fume, CO, CO₂ and H₂S.
If tank, rail car or tanker truck is involved in fire, isolate for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. Shut off fuel to fire if possible to do so without hazard. Avoid flushing spilled product into sewers, streams or other bodies of water.

Special Protective Equipment and Precautions for Fire-Fighters:

A SCBA is recommended to limit exposures to combustion products when fighting fires.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. Remove all potential ignition sources. Isolate the area of the spill and restrict access. For small spills, soak up released 10-02 with inert absorbent material, remove with shovels and place



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Procedures:

spilled material into a container. Contain large spills with inert materials. Avoid using combustive absorbers such as sawdust. Transfer liquids and solid material to suitable containers for recovery or disposal. Do not allow spills and cleaning runoff to enter drains, sewers, groundwater, drainage ditches or surface waters. Wear appropriate protective equipment as described in Section 8.

Containment and Clean up:

Methods for containment can be to stop or reduce leak if safe to do so. Ventilate area to prevent the gas from accumulating, especially in confined spaces

Methods for cleanup/disposal of 10-02 should be according Federal, State, Provincial and Local regulations. Protect bodies of water by diking to prevent run off, absorbents or absorbent boom that does not react with spilled product. Place used absorbent into suitable, covered, labeled containers for disposal. Remove or recover liquid using pumps or vacuum equipment.

Inform relevant authorities if the product has caused environmental pollution. Contact emergency services and manufacturer/supplier for advice.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Handle with care and use appropriate control measures. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not expose to heat, open flames, strong oxidizers or other source of ignition. Do not cut, drill, grind or weld on empty containers since they may contain flammable residues.

Significant concentrations of hydrogen sulfide (H₂S) gas can be generated and accumulate in storage tanks and bulk transport compartments which may require additional precautions and procedures during loading and unloading. When opening covers and outlet caps on storage tanks, use face shield and gloves to avoid possible injury from pressurized product. Stay upwind and vent open hatches before unloading. Keep heating coils and flues in storage tanks, trucks and kettles covered with product. Do not overheat.

Properly ground all conveyance systems. The potential exists for static build-up and static discharge when moving or mixing materials through a plastic, non-conductive, or non-grounded conveyance system. The static discharge may result in damage to equipment and injury to workers.

Conditions for Safe Storage:

Store away from all ignition sources, incompatible materials and open flames. Storage above 55°C or 122°F may affect product quality. Electrically bond and ground containers. Ground clips must contact bare metal. Avoid bulk storage indoors.



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Store in a cool, dry and well-ventilated area. Do not expose to direct sunlight, open flames, high heat, strong oxidizers or other source of ignition. Consult appropriate Federal, State, Provincial and Local authorities before reusing, recycling or disposing of empty containers or waste residues of this product.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Component	ACGIH TLV® TWA (mg/m ³)	ACGIH TLV® STEL (mg/m ³)	OSHA PEL TWA (mg/m ³)
Asphalt Cement (as fume)	0.5 (l) A4 BEI		Not Established
Mineral Spirits			

Appropriate Engineering Controls: Use local exhaust or general dilution ventilation to maintain levels below exposure limits. Ensure that an emergency eye wash station and safety shower is located near the work area.

Individual Protection Measures:

Respiratory Protection Under ordinary conditions no respiratory protection is required. Wear a NIOSH approved respirator that is properly fitted and is in good condition when exposed to vapors above exposure limits.

Eye Protection Wear CSA/ANSI approved safety goggles when handling 10-02 to prevent contact with eyes. A face shield may also be required to prevent contact with eyes and face.

Skin Protection Wear chemical resistant gloves (e.g. neoprene or butyl rubber) to prevent skin contact and thermally insulated gloves when handling hot product. Do not rely on barrier creams, in place of impervious gloves. Additional protection may be necessary to prevent skin contact including use of apron, arm covers, face shield or boots. Remove and launder clothing that is soiled with 10-02. Thoroughly wash hands and other exposed skin after exposure to 10-02.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid - Black	Flammability (solid/gas): Upper/Lower Flammability or Explosive Limits:	Not applicable 1 LEL, 7 UEL
Odour:	Slight petroleum odour	Vapour Pressure:	Not applicable
Odour Threshold:	NA	Vapour Density (air = 1):	Not applicable
pH:	NA		



Melting Point:	NA	Relative Density (Water=1):	0.938
Freezing Point:	NA	Solubility:	Insoluble
Initial Boiling Point:	149 - 204°C or 300 - 400°F	Partition Coefficient: n-octonal/water (Log Kow):	Not applicable
Boiling Point Range:	149 - 204°C or 300 - 400°F	Auto-ignition Temperature	253°C (470°F)
Flash Point:	38°C (102°F) Tag Closed Cup.	Decomposition Temperature:	Not applicable
Evaporation Rate:	Slower than n-BuAc	Viscosity:	Not applicable

Section 10: STABILITY AND REACTIVITY

Reactivity:	Non-reactive under normal conditions of use
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	None.
Conditions to Avoid:	High temperatures, sources of heat, ignition, or open flame.
Stability:	Stable. Avoid contact with incompatible materials, excessive heat, sources of ignition and open flame.
Incompatible Materials:	Acids, bases, oxidizing agents such as nitrates, chlorates, peroxides.
Incompatibility:	10-02 is incompatible with strong acids or bases, and oxidizing agents such as nitrates, chlorates and peroxides.
Hazardous Decomposition Products:	When heated may liberate carbon monoxide, carbon dioxide, hydrogen sulfide, various hydrocarbons, smoke, vapours, fumes.

Section 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation, ingestion, skin contact, eye contact.

Acute Toxicity

Components	CAS Number	LD ₅₀ (rat, oral)	LC ₅₀ (rat, inhalation)	LD ₅₀ (rabbit, dermal)
Asphalt Cement (as fume)	8052-42-4	>5000 mg/kg		>2000 mg/kg



Mineral Spirit	64475-85-0			
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Skin Corrosion/Irritation

Irritating to skin. Signs and symptoms may include redness, itching, swelling, pain. Prolonged or repeated contact may cause severe burns. Contact with hot product will cause thermal burns

Serious Eye Damage/Irritation

Irritating to eyes. Signs and symptoms may include redness, itching, swelling, pain, blurred vision, tears, blindness. Contact with hot liquid may cause severe burns. Vapors may cause redness, itching, swelling, pain, blurred vision, tears or blindness. Product may release hydrogen sulfide gas which may irritate eyes. Signs and symptoms may include redness, itching, swelling, pain, light sensitivity, appearance of 'halos' around lights, and loss of consciousness.

STOT (Specific Target Organ Toxicity) – Effects from Short Term Exposure**Single Exposure**

Throat and nose irritation. Hot vapors may contain hydrogen sulfide. Fume inhalation may cause headache, nausea, nervousness, eye irritation, respiratory tract irritation.

Ingestion

Not a relevant route of exposure (gas). May cause burns to mouth, tongue, lips, throat, nasal passage, stomach.

May result in headache, vomiting, nausea, shortness of breath, irregular heartbeat, dizziness, confusion, fatigue.

Aspiration Hazard

Not known to be aspiration hazard.

STOT (Specific Organ Toxicity) – Repeated Effects From Long-Term Exposure

Not available.

Respiratory and/or Skin Sensitization

Skin irritation symptoms may include itchiness, redness, swelling, and irritation of the respiratory system.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Asphalt (Bitumen)	Group 2B	A4		

The International Agency for Research on Cancer (IARC) has concluded that occupational exposures to oxidized asphalt and their emissions during roofing operations are “probably carcinogenic to Humans (Group 2A). IARC concluded that occupational exposures to hard asphalt and their emissions during mastic asphalt work are “possibly carcinogenic to humans” (Group 2B). IARC concluded that occupational exposures to straight-run asphalt and their emissions during paving operations are “possibly carcinogenic to humans” (Group 2B).

Reproductive Toxicity



Development of Offspring

Not available.

Sexual Function and Fertility

Not available. None known.

Effects on or via Lactation

None known.

Germ Cell Mutagenicity

Not available.

Interactive Effects

Not available.

Section 12: ECOLOGICAL INFORMATION

Keep out of drainage areas, sewers, streams, rivers, ponds, lakes, and other bodies of water. Report spills under required Federal, Provincial, State, and Local regulations.

Ecotoxicity:

Marine pollutant.

Persistence and Degradability

Not expected to be readily degradable.

Bioaccumulative Potential

Not known to bioaccumulate.

Mobility in Soil

Studies are not available.

Other Adverse Effects

Studies are not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods:

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. Recycle and reuse product, if possible. The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user. Dispose of or empty recycle containers through an approved waste management facility.

Section 14: TRANSPORT INFORMATION

TDG (Canada) and U.S. DOT

Regulation	UN No.	Shipping Name	Class	Packing Group



SDS: Asphalt Sealer

TDG (Canada)	1999	Asphalt Sealer 10-02 (TARS, LIQUIDS, including road asphalt and oils, bitumen and cutbacks)	3	II
US DOT	1999	Asphalt Sealer 10-02 (TARS, LIQUIDS, including road asphalt and oils, bitumen and cutbacks)	3	II

Section 15: REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada – Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients listed on DSL/NDSL. Components of this product are in compliance with the chemical notification requirements of the NSN Regulation under CEPA, 1999.

This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's hazard communication program

This product is not listed as a CERCLA hazardous substance.

USA – Toxic Substances Control Act (TSCA) Section 8(b)

Components are in compliance with the chemical notification requirements of TSCA.

Section 16: OTHER INFORMATION

Date of Last Revision: 17-January-2025

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