

Material Safety Data Sheet

Section 1: PRODUCT AND COMPANY INFORMATION

Product Name(s): 10-07 Industrial Asphalt

Product Identifiers: 10-07 Industrial Asphalt, 10-07

Manufacturer:
Coco Paving Inc.
949 Wilson Avenue
Toronto, Ontario M3K 1G2

Information Telephone Number:
(416) 633-9670

Emergency Telephone Number:
CANUTEC (613) 996-6666

Product Use: 10-07 industrial asphalt is used as a protective coating in industrial applications.



Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percent (By Weight)	CAS Number	OSHA PEL – TWA (mg/m ³)	ACGIH TLV-TWA (mg/m ³)	LD ₅₀ (rat, oral)	LC ₅₀ (rat, inhalation)
Asphalt Cement (as Fume)	40-60	8052-42-4	NA	0.5	NA	NA
Stoddard Solvent	35-50	8052-41-3	500 ppm	100 ppm	NA	NA

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 3: HAZARD IDENTIFICATION

WARNING		
	<p style="text-align: center;">Flammable Liquid Hot product can cause burns.</p> <p style="text-align: center;">Irritant: Causes eye, skin and inhalation irritation.</p> <p style="text-align: center;">Toxic - Harmful by inhalation. Hot Product can release Hydrogen Sulfide gas.</p> <p style="text-align: center;">Use proper engineering controls, work practices, and personal protective equipment.</p> <p style="text-align: center;">Read MSDS for details.</p>	

Emergency Overview: 10-07 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.

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

Eye Contact: Hot product will cause severe thermal burns. Eye contact with 10-07 liquid or vapors can cause moderate eye irritation, redness, and itching. Eye exposures require immediate first aid to prevent damage to the eye.

Section 3: HAZARD IDENTIFICATION (continued)

- Skin Contact:** Direct contact with hot 10-07 will cause severe thermal burns. Repeated or prolonged contact to 10-07 may cause redness, dry skin, discomfort, irritation, sensitivity and dermatitis.
- Inhalation:** Hot 10-07 releases irritating fumes or vapors such as smoke, carbon dioxide, carbon monoxide, and unburned hydrocarbons. Exposure to vapors may 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 10-07. Hot product will cause thermal burns. Ingestion may result in nausea, vomiting, diarrhea and restlessness. Aspiration (inadvertent suction) of liquid into the lungs must be avoided as even small quantities in the lungs can produce chemical pneumonitis, pulmonary edema/hemorrhage and even death.

Medical Conditions

Aggravated by Exposure: Individuals with preexisting skin conditions can be aggravated by exposure.

Section 4: FIRST AID MEASURES

- Eye Contact:** For contact with product, flush with large amounts of cool water for at least 15 minutes, including under lids. Seek medical attention for burns and severe irritation.
- Skin Contact:** Wash with cool 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 medical attention for burns.
- Inhalation:** Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside.
- Ingestion:** Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention or contact poison control center immediately.
- Notes:** 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 5: FIREFIGHTING MEASURES

Flashpoint & Method:	40.5°C (102°F) Cleveland Open Cup.	Firefighting Equipment:	A SCBA is recommended to limit exposures to combustion products when fighting any fire.
General Hazard:	Combustible liquid. Avoid breathing vapors.		
Upper/Lower Flammable Limit:	0.7 LEL, 6 UEL.		
Auto-Ignition Temperature:	245°C (473°F)	Combustion Products:	Vapors form a flammable mixture with air. Toxic gases produced in fire, such as CO, CO ₂ , and H ₂ S.
Explosion Data:	Sensitive to static charge		

Section 5: FIREFIGHTING MEASURES (continued)

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.
Specific Hazards:	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. Cool containing vessels with water spray in order to prevent pressure buildup, autoignition or explosion. Do not flushing spilled product into sewers, streams or other bodies of water.

Section 6: ACCIDENTAL RELEASE MEASURES

General:	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 10-07 with inert absorbent material, remove with shovels and place 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.
Waste Disposal Method:	Dispose of 10-07 according to Federal, State, Provincial and Local regulations.

Section 7: HANDLING AND STORAGE

General:	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 (H ₂ S) 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.
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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.

Usage: Avoid contact with skin, eyes and clothing. Use additional precautions when handling hot material. Maintain employee exposure levels below established regulatory limits. Do not allow hot product to contact skin. Ensure adequate ventilation. Use all appropriate engineering controls and Personal Protective Equipment (PPE) described in Section 8 below.

Section 7: HANDLING AND STORAGE (continue)

Storage Temperature: Store away from all ignition sources, incompatible materials and open flames. Storage above 55 °C or 122 °F may affect product quality.

Storage: 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 AND PERSONAL PROTECTION

Engineering Controls: Use local exhaust or general dilution ventilation when using at elevated temperatures or during activities that generate vapors or mists, to maintain levels below exposure limits. Ensure that an emergency eye wash station and safety shower is located near the work area.

Personal Protective Equipment (PPE):

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 or face shield when handling 10-07 to prevent contact with eyes.

Skin Protection: Wear chemical resistant gloves (e.g. neoprene or butyl rubber) to prevent skin contact and 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 10-07. Thoroughly wash hands and other exposed skin after exposure to 10-07.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.	Evaporation Rate:	Slower than n-BuAc.
Appearance:	Black.	pH (in water):	NA.
Odor:	Slight petroleum odor.	Boiling Point:	176.7 °C or 350 °F.
Vapor Pressure:	2.6 mm Hg.	Freezing Point:	NA.
Vapor Density:	> 3.0.	Viscosity:	NA.
Specific Gravity:	0.92 g/ml.	Solubility in Water:	Insoluble.

Section 10: STABILITY AND REACTIVITY

Stability: Stable. Avoid contact with incompatible materials, excessive heat, sources of

ignition, direct sunlight and open flame.

Incompatibility: 10-07 is incompatible with strong acids or bases, and oxidizing agents such as nitrates, chlorates and peroxides. Do not allow hot product to contact water.

Hazardous Polymerization: None.

Hazardous Decomposition: When heated may liberate carbon monoxide, carbon dioxide, hydrogen sulfide, trace oxides of sulfur and nitrogen, and various hydrocarbons.

Section 11 and 12: TOXICOLOGICAL AND ECOLOGICAL INFORMATION

For questions regarding toxicological and ecological information refer to contact information in Section 1.

Section 13: DISPOSAL CONSIDERATIONS

Dispose of waste and containers in compliance with applicable Federal, State, Provincial and Local regulations.

Section 14: TRANSPORT INFORMATION

This product is classified as a Hazardous Material under U.S. DOT and a Dangerous Good under Canadian TDG regulations.

Section 15: REGULATORY INFORMATION

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

CERCLA/SUPERFUND: This product is not listed as a CERCLA hazardous substance.

EPCRA SARA Title III: This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is considered to be an acute health hazard (irritation).

EPRCA SARA Section 313: This product contains none of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

RCRA: If discarded in its purchased form, this product would be characterized as a D001 waste. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA: This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

California Proposition 65: This product and/or its components are not listed in California's Proposition 65.

WHMIS/DSL: This product is classified as D2B and B3 and is subject to WHMIS requirements.



Section 16: OTHER INFORMATION

Abbreviations:

>	Greater than	MSHA	Mine Safety and Health Administration
ACGIH	American Conference of Governmental Industrial Hygienists	NA	Not Applicable
		NFPA	National Fire Protection Association
ANSI	American National Standards Institute	NIOSH	National Institute for Occupational Safety and Health
CAS No	Chemical Abstract Service number		
CBI	Confidential Business Information	NTP	National Toxicology Program
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	OSHA	Occupational Safety and Health Administration
		PEL	Permissible Exposure Limit
CFR	Code for Federal Regulations	pH	Negative log of hydrogen ion
CL	Ceiling Limit	PPE	Personal Protective Equipment
CSA	Canadian Standards Association	R	Respirable Particulate
DOT	U.S. Department of Transportation	RCRA	Resource Conservation and Recovery Act
EST	Eastern Standard Time	SARA	Superfund Amendments and Reauthorization Act
HEPA	High-Efficiency Particulate Air		
HMIRC	Hazardous Materials Information Review Commission	SCBA	Self-Contained Breathing Apparatus
		T	Total Particulate
HMIS	Hazardous Materials Identification System	TDG	Transportation of Dangerous Goods
		TLV	Threshold Limit Value
IARC	International Agency for Research on Cancer	TWA	Time Weighted Average (8 hour)
		WHMIS	Workplace Hazardous Materials Information System
LC ₅₀	Lethal Concentration		
LD ₅₀	Lethal Dose		
mg/m ³	Milligrams per cubic meter		

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