Safety Data Sheet



Section 1: Identification

Product identifier	
Product Name	 Kwik Mix Asphalt Patch
Relevant identified uses of the	substance or mixture and uses advised against
Recommended use	Pavement Repair
Details of the supplier of the sa	afety data sheet
Manufacturer	Kwik-Mix Materials Limited
	P.O. Box 520 Port Colborne Ontario L3K 5X7 Canada www.kwikmix.com sales@kwikmix.com
Telephone (General)	• 905-834-6177
Emergency telephone number	
Manufacturer	• 905-834-6177 or 1-800-668-3140

Section 2: Hazard Identification

United States (US) According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

 Eye Irritant 2B Carcinogenicity 1A Specific Target Organ Toxicity Repeated Exposure 1

Label elements

OSHA HCS 2012

OSHA HCS 2012

DANGER



Hazard statements • May cause eye irritation if particles or dust get in eye. May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention	 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
Response •	 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Specific treatment, see supplemental first aid information. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.
Storage/Disposal	 Store locked up. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Other hazards	
OSHA HCS 2012	 Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada According to: WHMIS 2015

Classification of the substance or mixture

 Eye Irritant 2B Carcinogenicity 1A Specific Target Organ Toxicity Repeated Exposure 1

Label elements

WHMIS 2015

WHMIS 2015

DANGER



Hazard statements • May cause eye irritation if particles or dust get in eye. May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Precautionary

statements

Prevention • Obtain special instructions before use.

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

- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.

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

Response	IF INHALED: Remove person to fresh air and keep in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	Wash contaminated clothing before reuse.
	Specific treatment, see supplemental first aid information.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.
Storage/Disposal	Store locked up. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Other hazards	
WHMIS 2015	In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

Substances

• Material does not meet the criteria of a substance.

Mixtures

Composition						
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments	
Aggregate	CAS:Various	90% TO 95%	NDA	OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA	
Crystalline silica	CAS: 14808- 60-7	< 10.%	NDA	OSHA HCS 2012: Carc. 1A; STOT RE 1 (Lungs, Inhl) WHMIS 2015: Carc. 1A; STOT RE 1 (Lungs, Inhl)	NDA	
Asphalt	CAS: 8052-42- 4	< 10.%	Ingestion/Oral-Rat LD50 • >5000 mg/kg Skin-Rabbit LD50 • >12 mg/kg	OSHA HCS 2012: STOT RE 1 (Lung, Liver, Inhl) WHMIS 2015: STOT RE 1 (Lung, Liver, Inhl)	NDA	
Fuel oil, No. 2	CAS: 68476- 30-2	0% TO 8%	Ingestion/Oral-Rat LD50 • >12 g/kg Skin-Rabbit LD50 • 34720 μL/kg	OSHA HCS 2012: Not Classified WHMIS 2015: Not Classified	NDA	

Section 4: First-Aid Measures

Description of first aid measures

Inhalation • Move victim to fresh air. Administer oxygen if breathing is difficult. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Give artificial respiration if victim is not breathing. Get medical attention immediately.

Kwik Mix Asphalt Patch

- Skin
 For minor skin contact, avoid spreading material on unaffected skin. Wash skin with cool water and pHneutral soap or a mild detergent intended for use on skin. Remove and isolate contaminated clothing. Get medical attention immediately.
- Eye In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Get medical attention immediately.
- Ingestion
 Do NOT induce vomiting. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested the substance. If swallowed, rinse mouth with water (only if the person is conscious) Obtain medical attention immediately if ingested.

Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to
 Physician
 All treatments should be based on observed signs and symptoms of distress in the patient.
 Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media	 Small Fire – Carbon Dioxide, dry chemical powder, appropriate foam, water spray or fog, non-combustible material such as dry sand or earth. Large Fire – Fire Fighting foam suitable for the situation.
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.
Special hazards arisi	ing from the substance or mixture
Unusual Fire and Explosion Hazards	No data available
Hazardous Combustion Products	 Combustible liquid. Can ignite if heated. Toxic gases are produced in fire, such as smoke, fume, NOx, CO₂, CO, SO₂ and H₂S.
Advice for firefighter	S
	 Fire may release toxic combustion products such as smoke, fume, CO, CO₂, SO₂ and H₂S. If tank, rail car or tanker is involved in fire, isolate for 800 metres (1/2mile) 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. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions
 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 asphalt with inert absorbent material, remove with shovels and place spilled material into a container. Contain large spills with inert material. 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 equipment as described in Section 8.

Emergency

• Isolate the hazard area. Keep out unnecessary and unprotected personnel.

Procedures

Environmental precautions

• Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up• Avoid generating dust.MeasuresCarefully shovel or sweep up spilled material and place in suitable container.

Section 7 - Handling and Storage

Precautions for safe handling

Handling • Handle and open container with care. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Promptly remove dusty clothing, or clothing that is wet with material. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage • Keep container tightly closed. Keep material as dry as possible until used. Normal temperatures and pressures do not affect the material.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines							
	Result	ACGIH	NIOSH	OSHA			
Aggregate (Various)	TWAs	Not established	10mg/m₃ TWA (total dust); 5mg/m³ TWA (respirable dust)	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)			
Asphalt Cement (as Fume) (8052-42-4)	TWAs	0.5 mg/m ³ (fume, inhalable particulate matter)	5 mg/m³ (fume)	0.5 mg/m ³ (fume, inhalable)			
Fuel oil, No. 2 (68476-30-2	TWAs	100 mg/m ³ (inhalable fraction and vapor – Diesel fuel)	100 mg/m ³ (inhalable fraction and vapor – Diesel fuel)	100 mg/m ³ (inhalable fraction and vapor – Diesel fuel)			
Crystalline silica (14808-60-7)	TWAs	0.025 mg/m ³ TWA (respirable fraction)	0.05 mg/m ³ TWA (respirable dust)	Not established			

Exposure controls

Engineering Use local exhaust or general dilution to maintain levels below exposure limits. Ensure that Measures/Controls an emergency eye wash station and safety shower is located near the work area. **Personal Protective Equipment** Respiratory • 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/Face Wear CSA/ANSI approved safety goggles when handling VLW to prevent contact with eyes. A face shield may also be required to prevent contact with eyes and face. Skin/Body • 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 VLW. Thoroughly wash hands and other exposed skin after exposure to VLW.

Environmental Exposure Controls

 Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Physical Form	Solid	Appearance/Description	Black coloured granular solid tha has a petroleum odour.
Color	Black or Brown	Odor	Petroleum
Odor Threshold	No data available		
General Properties			
Boiling Point	100°C (water component)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH 9-12	No data available
Specific Gravity/Relative Density	No data available	Water Solubility	Insoluble in Water
Viscosity	No data available		
Volatility			
Vapor Pressure	7.5 @ 20°C	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	105-110°C (221-230°F)	UEL	No data available
LEL	UFL:6.0 LFL:0.7	Autoignition	>225°C (>437°)
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

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.

Incompatible materials

• Acids, bases, oxidizing agents such as nitrates, chlorates, peroxides.

Hazardous decomposition products

• When heated may liberate carbon monoxide, carbon dioxide, hydrogen sulfide, trace oxides of sulfur and nitrogen, various hydrocarbons, smoke, vapours, fumes.

Section 11 - Toxicological Information

Information on toxicological effects

	Components					
Aggregate(90% TO 95%)	Various	Multi-dose Toxicity: Inhalation-Rat TCLo • 84 mg/m ³ 4 Hour(s) 40 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration</i> :Fibrosis (interstitial); <i>Liver</i> :Other changes; <i>Kidney, Ureter, and Bladder</i> :Other changes; Inhalation-Rat TCLo • 250 mg/m ³ 2 Hour(s) 24 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration</i> :Fibrosis, focal (pneumoconiosis)				
Fuel Oil #2 (as Vapor & Aerosol (0% TO 8%)	68476- 30-2	Acute Toxicity: Inhalation-Human TCLo • 11 mg/L 4h 10 Year(s) vapor; Sense Organs; Other changes; Lungs, Thorax, or Respiration:Fibrosing alveolitis; Lungs, Thorax, or Respiration; Oral-Rat TDLo • 7,500 mg/kg; Inhalation-Rat 4.1mg/L 4 Hour(S) vapor; Skin -Mouse 24,000 mg/kg 4 Hour(s) Moderate irritation				
Crystalline silica (< 30.22%)	14808- 60-7	Acute Toxicity: Inhalation-Human TCLo • 16 mppcf 8 Hour(s) 17.9 Year(s)-Intermittent; <i>Lungs, Thorax, or</i> <i>Respiration</i> :Fibrosis, focal (pneumoconiosis); <i>Lungs, Thorax, or Respiration</i> :Cough; <i>Lungs, Thorax, or</i> <i>Respiration</i> :Dyspnea; Inhalation-Rat TCLo • 200 mg/kg; <i>Lungs, Thorax, or Respiration</i> :Fibrosis, focal (pneumoconiosis); <i>Lungs, Thorax, or Respiration</i> :Other changes; <i>Nutritional and Gross</i> <i>Metabolic</i> :Changes in Chemistry or Temperature:Fe; Multi-dose Toxicity: Inhalation-Hamster TCLo • 3 mg/m ³ 6 Hour(s) 78 Week(s)-Intermittent; <i>Lungs,</i> <i>Thorax, or Respiration</i> :Fibrosis (interstitial); <i>Lungs, Thorax, or Respiration</i> :Changes in lung weight; Inhalation-Rat TCLo • 80 mg/m ³ 26 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration</i> :Fibrosis, focal (pneumoconiosis); <i>Blood</i> :Changes in spleen; <i>Immunological Including Allergic</i> :Decrease in cellular immune response; Inhalation-Rat TCLo • 6.2 mg/m ³ 6 Hour(s) 6 Week(s)-Intermittent; <i>Lungs,</i> <i>Thorax, or Respiration</i> :Other changes; <i>Blood</i> :Changes in spleen; <i>Immunological Including</i> <i>Allergic</i> :Increase in cellular immune response; Mutagen: Micronucleus test • Unreported Route-Hamster • Lung (Somatic cell) • 160 µg/cm ³ ; DNA damage • Unreported Route-Human • Other Cell Type • 120 mg/L 24 Hour(s); Micronucleus test • Unreported Route- Human • Lung (Somatic cell) • 40 µg/cm ³ ; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 50 mg/m ³ 6 Hour(s) 71 Week(s)-Intermittent; <i>Tumorigenic</i> :Carcinogenic by RTECS criteria; <i>Liver</i> :Tumors				
Asphalt (0% TO 10%)	8052-42- 4	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5,000 mg/kg 2 Hour(s); Inhalation-Rat LC50 • 94.4 mg/m ³ 2 Hour(s); <i>Lungs, Thorax, or Respiration</i> :Dyspnea; <i>Gastrointestinal</i> :Other changes; Irritation: Skin-Rabbit • 2,000 mg/kg 24 Hour(s) • Mild irritation				

GHS Properties	Classification		
Acute toxicity	OSHA HCS 2012•No data available WHMIS 2015•No data available		
Skin corrosion/Irritation	OSHA HCS 2012• Skin Irritation WHMIS 2015•Skin Irritation		
Serious eye damage/Irritation	OSHA HCS 2012•Serious Eye Damage 1 WHMIS 2015•Serious Eye Damage 1		
Skin sensitization	OSHA HCS 2012•No data available WHMIS 2015•No data available		
Respiratory sensitization	OSHA HCS 2012•No data available WHMIS 2015•No data available		
Aspiration Hazard	OSHA HCS 2012•No data available WHMIS 2015•No data available		
Carcinogenicity	OSHA HCS 2012•Carcinogenicity 1A WHMIS 2015•Carcinogenicity 1A		
Germ Cell Mutagenicity	OSHA HCS 2012•No data available WHMIS 2015•No data available		
Toxicity for Reproduction	OSHA HCS 2012•No data available WHMIS 2015•No data available		
STOT-SE	OSHA HCS 2012•No data available WHMIS 2015•No data available		
STOT-RE	OSHA HCS 2012•Specific Target Organ Toxicity Repeated Exposure 1 WHMIS 2015•Specific Target Organ Toxicity Repeated Exposure 1		

Kwik Mix Asphalt Patch

Potential Hea	Ith Effects
Inhalation	
Acute (Immediate)	 May cause respiratory tract irritation. Toxic fumes may be generated from heating asphalt and may be harmful if inhaled. Irritating and toxic hydrogen sulfide gas me be present. Greater than 15- 20ppm continuous exposure can cause mucous membrane and respiratory tract irritation. 50- 500ppm can cause headache, nausea, and dizziness. Continued exposure at these levels can lead to loss of reasoning and balance, difficulty in breathing, fluid in the lungs, and possible loss of consciousness. Greater than 500ppm can cause rapid unconsciousness and death if not promptly revived. Prolonged exposure may cause irritation.
Chronic (Delayed)	 Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.
Skin	
Acute (Immediate)	 May cause redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause thermal burns.
Chronic (Delayed) Eye	Repeated or prolonged exposure will cause dermatitis.
Acute (Immediate)	 May cause slight irritation to eyes. May cause thermal burns.
Chronic (Delayed)	 Repeated or prolonged exposure to the fumes may cause conjunctivitis.
Ingestion	
Acute (Immediate)	 May cause irreversible damage to mucous membranes.
Chronic (Delayed)	 Repeated or prolonged exposure to fumes may cause gastrointestinal disturbances.
Carcinogenic Effects	 Repeated and prolonged exposure may cause cancer.
	Carcinogenic Effects

Carcinogenic Effects						
	CAS OSHA IARC NTP					
Asphalt	8052-42-4	Group 2B- Possible Carcinogen	Group 2B-Possible Carcinogen	Possible Human Carcinogen		
Fuel Oil No. 2	68476-30-2	Group 2B-Possible Carcinogen	Group 2B-Possible Carcinogen	Possible Human Carcinogen		
Crystalline silica	14808-60-7	Not Listed	Group 1-Carcinogenic	Known Human Carcinogen		

Key to abbreviations

LD = Lethal Dose TC = Toxic Concentration TD = Toxic Dose

Section 12 - Ecological Information

Toxicity

• Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in Soil

• No data available

Other adverse effects

• Avoid release to the environment.

Section 13 - Disposal Considerations

Waste treatment methods

- **Product waste** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Packaging
waste• Dispose of content and/or container in accordance with local, regional, national, and/or
international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

Special precautions for user

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

None specified.

No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

Acute, Chronic

Canada

Labor

- 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.
- Considered to be a D2A and D2B hazardous material under the Hazardous Product Act as defined by the Controlled Products.
- Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS).
- Products containing Crystalline Silica are classified as D2A and are subject to WHMIS requirements.

United States

Labor

- This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's communication • program.
- This product is not listed as a CERCLA hazardous substance.
- This product has been reviewed according to the EPA Hazardous 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).
- This product contains none of the substances subject to the reporting requirements of the Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
- If discarded in its purchased form, this product would not be a hazardous waste either by listing or characteristic. 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.
- This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.
- Crystalline Silica (airborne particulates or respirable size) is a substance know by the State of California to cause cancer.

Other Information

• WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Revision Date Last Revision Date Preparation Date Disclaimer/Statement of Liability	 27/November/2023 13/September/2018 10/October/2016 The information contained herein is based on data obtained from other companies and organizations and is considered to be accurate. However, Kwik Mix Materials Limited makes no warranty or representation, either expressed or implied, that the information, is accurate, complete or representative. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. Further, Kwik Mix Materials Limited assumes no responsibility for any injury to the buyer, the buyer's employees, or to any third persons, if reasonable safety procedures are not followed. Additionally, Kwik Mix Materials Limited assumes no responsibility for injury to buyer, the buyer's employees, or any to third persons caused by abnormal use of this material, even if reasonable safety procedures are followed.
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Key to abbreviations NDA = No Data Available