

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name PATCH WORK

Other means of identification

Product Code 1710

Details of the supplier of the safety data sheet

Company Name Blue Cardinal Chemical, LLC
3670 Scarlet Oak Blvd.
St. Louis, MO 63122
800-325-3312

Emergency telephone number

Emergency Telephone CHEMTEL 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

GHS US classification

Carcinogenicity Category 2	H351 Suspected of causing cancer
Acute toxicity (inhalation:dust,mist) Category 4	H332 Harmful if inhaled

Label elements

Emergency Overview

WARNING

Hazard statements

H332 Harmful if inhaled
H351 Suspected of causing cancer



Appearance: Granular Black Material

Physical state: Coated stone

Odor: Petroleum

**Precautionary Statements - Prevention**

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective equipment
P308 + P313 - If exposed or concerned: Get medical advice/attention
Wear protective gloves that protect against thermal burns when handling hot material. Chemical goggles or safety glasses.

Precautionary Statements - Response

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Suspected of causing cancer. Inhalation: Allow victim to breathe fresh air. Allow the victim to rest. Skin Contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Eye Contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Precautionary Statements - Storage

Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Precautionary Statements - Disposal

Dispose in a safe manner in accordance with local, state and federal regulations. Avoid release to the environment.

Hazards not otherwise classified (HNOC)**Other Information**

• Vapors and gases from heated asphalt may contain hydrogen sulfide and may be irritating to the eyes and skin. Skin contact with asphalt may cause skin irritation and allergic reactions in some individuals. Hot material may cause burns.

Unknown Acute Toxicity

None of the ingredients in the mixture are of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET
Asphalt	8052-42-4	2 – 8*	*
Fuel oil No. 2	68476-30-2	1 – 3*	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**First aid measures****General Advice**

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Suspected of causing cancer.

Skin Contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye Contact

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

Inhalation

Allow victim to breathe fresh air. Allow the victim to rest.

Ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms and effect, both acute and delayed**Symptoms**

No additional information available

Indication of any immediate medical attention and special treatment needed**Note to physicians**

No additional information available

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

Specific hazards arising from the chemical

No additional information available.

Protective equipment and precautions for firefighters

Do not enter fire area without proper protective equipment, including NIOSH approved positive-pressure breathing apparatus with full face mask and full protective equipment. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

For non-emergency personnel: Evacuate unnecessary personnel.
For emergency responders: Equip cleanup crew with proper protection. Ventilate area.

Environmental precautions

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if material enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for containment & cleaning up

On land, sweep or shovel into suitable containers for reuse.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in work area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Incompatible Materials

Strong bases. Strong acids. Sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

High Performance Pothole Patch/Cold Patch		
ACGIH	Not applicable	
OSHA	Not applicable	
Asphalt (8052-42-4)		
ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³ Inhalable fraction
OSHA	Not applicable	
Fuel oil No. 2 (68476-30-2)		
ACGIH	ACGIH TWA (mg/m³)	100 mg/m³ (inhalable fraction and vapor)
OSHA	Not applicable	

Fuel oil No. 2 (68476-30-2)		
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA ACGIH	ACGIH STEL (ppm)	5 ppm
USA OSHA	OSHA PEL (ppm) (Vacated limits)	10 ppm
USA OSHA	OSHA STEL (ppm) (Vacated limits)	15 ppm
USA OSHA	OSHA Ceiling (ppm)	20 ppm

Appropriate engineering controls**Engineering Controls**

Ensure that proper ventilation is provided to maintain exposures below regulated limits.

Individual protection measures, such as personal protective equipment

Personal protective equipment	Avoid all unnecessary exposure.
Eye/face protection	Chemical goggles or safety glasses.
Skin and body protection	Wear protective gloves that protect against thermal burns when handling hot material.
Respiratory protection	Not typically required. In cases where exposures exceed occupational control limits, a NIOSH approved respirator is recommended.
General Hygiene	Do not eat, drink or smoke during use. Wash hands and other exposed areas after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Coated stone
Appearance	Granular Black Material
Color	Black
Odor	Petroleum
Odor Threshold	No data available

Property**Values**

pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Relative evaporation rate (butyl acetate=1)	No data available
Relative evaporation rate (ether=1)	Slower than ether
Flammability (solid, gas)	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density at 20 °C	Heavier than air
Solubility	Negligible in water.
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available

Other Information

Percent volatile 0-4% by volume

10. STABILITY AND REACTIVITY**Reactivity**

No additional information available.

Chemical Stability

Stable under normal conditions of use.

Possibility Of Hazardous Reactions

This material is not known to undergo hazardous polymerization.

Conditions To Avoid

Extremely high or low temperatures.

Incompatible Materials

Avoid contact with strong acids, oxidizing agents, and petroleum product to preserve the quality of this material.

Hazardous Decomposition Products

Hydrogen sulfide and other toxic vapors may be given off when heated excessively. Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION**Information on toxicological effects**

Acute toxicity Not classified

Asphalt (8052-42-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Fuel oil No. 2 (68476-30-2)	
LD50 oral rat	12 g/kg
LD50 dermal rabbit	4720 µl/kg
LC50 inhalation rat (mg/l)	4.6 mg/l/4h
ATE US (oral)	12000.000 mg/kg body weight
ATE US (vapors)	4.600 mg/l/4h
ATE US (dust, mist)	4.600 mg/l/4h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Suspected of causing cancer.

Asphalt (8052-42-4)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	5 - Twelfth Report - Items under consideration
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified
Potential Adverse human health effects and symptoms	Suspected of causing cancer.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Fuel oil No. 2 (68476-30-2)	
LC50 fish 1	35 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

Persistence and Degradability

High Performance Pothole Patch/Cold Patch	
Persistence and degradability	Not established.

Asphalt (8052-42-4)	
Persistence and degradability	Not established.

Bioaccumulation

High Performance Pothole Patch/Cold Patch	
Bioaccumulative potential	Not established.

Asphalt (8052-42-4)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	> 6
Bioaccumulative potential	Not established.

Soil Mobility

No additional information available.

Other adverse effects

Other information Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Dispose in a safe manner in accordance with local, state and federal regulations.
Ecology - waste materials	Avoid release to the environment.

14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT

In accordance with DOT
Not regulated for transport

ADR

No additional information available.

Transport by sea

No additional information available.

Air transport

No additional information available.

15. REGULATORY INFORMATION**US Federal Regulations****High Performance Pothole Patch/Cold Patch**

SARA Section 311/312 Hazard Classes

Delayed (chronic) health hazard

Asphalt (8052-42-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Fuel oil No. 2 (68476-30-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

International Regulations**CANADA****Asphalt (8052-42-4)**

Listed on the Canadian DSL (Domestic Substances List)

Fuel oil No. 2 (68476-30-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations**Asphalt (8052-42-4)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Fuel oil No. 2 (68476-30-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available.

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available.

National Regulations

Asphalt (8052-42-4)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Fuel oil No. 2 (68476-30-2)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

US State Regulations

Asphalt (8052-42-4)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

16. OTHER INFORMATION

Issue Date 07/09/2015

Revision Date

Revision Note

N/A = Not Applicable; N/D = Not Determined

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet