



Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/16/2018 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Product form : Mixture Product name : Cold Mix Asphalt Binder Other means of identification SnapPatch, EcoPatch, ColPatch, HAM Magic Cold Mix Binder-Summer Grade, HAM Magic Cold Mix Binder-Winter Grade, ColPatch Binder-Summer Grade, ColPatch Binder-Winter Grade Relevant identified uses of the substance or mixture and uses advised against 1.2. Use of the substance/mixture : Road Paving Binder 1.3. Details of the supplier of the safety data sheet Colas Solutions, Inc. 7374 Main Street Cincinnati, OH 45244 Customer Service: 1-888-369-3163 1.4. **Emergency telephone number** Emergency number : 3E Company 1-800-451-8346 **SECTION 2: Hazards identification** 2.1. **Classification of the substance or mixture Classification (GHS-US)** Not classified as dangerous for supply/use 2.2. Label elements **GHS-US** labeling Hazard Symbol: None Signal Word: None Hazard Statements: Direct contact with paving asphalt emulsion at conventional application temperatures (between 230 and 325°F) will cause burns. Molten material can cause severe burns. Fumes may cause eye irritation. Fumes may cause upper respiratory irritation (nose & throat) Avoid breathing dust/fume/gas/mist/vapors/spray Precautionary Statements: As necessary, wear protective gloves/protective clothing/eye protection/face protection Wash hands and exposed skin after use. 23 **Other hazards** Other hazards not contributing to the : Skin contact may increase susceptibility to sunburn. classification 2.4 Unknown acute toxicity (GHS US) None of the ingredients are of unknown toxicity SECTION 3: Composition/information on ingredients 3.1. **Substance** Not applicable - the product is a mixture

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3.2. **Mixture**

Cold Mix Asphalt Binder¹

Name	Product identifier/CAS No.	Typical %	Classification (GHS-US)
Asphalt ²	(CAS No) 8052-42-4	75-100	Not classified
Proprietary diluents	Various	0-35	Not classified
Proprietary additives	Various	0-7	Not classified
Process oils(inherent in refined petroleum asphalt)	Various	<0.1	Not classified

¹Contains <0.1% hydrogen sulfide gas

²Contains <0.05% of 3-7 ring Polycyclic Aromatic Hydrocarbons (PAHs)

Transportation and production facility storage of asphalt products in heated containers may generate hydrogen sulfide gas in the vapor space Hydrogen sulfide gas will not be released during typical road paving activities associated with use of asphalt binders

Please see Section 8 of SDS for more details.

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	:	If exposed or concerned: Get medical advice/attention. Never give anything by mouth to an unconscious person.
First-aid measures after skin contact		<u>Hot Material</u> : Remove contaminated clothing, if possible, and immediately flush with cool water for at least 15 minutes. Iced water or cold packs may be applied to burned area. <u>Cold Material</u> : Clean exposed skin with soap or mild detergent and large amounts of water until all traces are removed from the skin.
		DO NOT DELAY
		DO NOT ATTEMPT TO REMOVE THE ASPHALT with products containing solvents or ammonia. Natural separation will occur in about 48-72 hours. If necessary, for early removal, soak bandage in mineral oil and place over affected area for 2 to 3 hours.
		USE ANY AVAILABLE WATER THAT IS COOLER THAN BODY TEMPERATURE TO COOL THE ASPHALT AND AFFECTED PARTS OF THE BODY IMMEDIATELY.
		Methods of cooling (in order of preference):
		Submerge affected area in ice water;
		Completely submerge affected area in tap water; and
		Place affected area under running water.
		Once the asphalt is being cooled with water, then call a physician. Do not attempt to remove solidified product because removal may cause further tissue injury. Leave cooled asphalt on affected area.
		Do not use solvents or thinners to remove product from skin.
		Do not apply ice directly to affected area.
		Seek medical attention for extensive burns.
		For Minor Asphalt Cement Burns: Follow the above procedure to treat minor burns. Medical treatment should be sought if there is injury to the head, face, or extremities; injury when large amounts of asphalt cement are involved or in the evidence of nausea or faintness.
First-aid measures after inhalation	:	Remove person to fresh air. Get prompt medical attention if breathing is difficult.
First-aid measures after eye contact	:	Immediately flush eyes with plenty of water for at least 15 minutes whil holding eyelids open. Get immediate medical attention.
First-aid measures after ingestion	:	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effec	ts	, both acute and delayed
Symptoms/injuries	:	Not expected to present a significant hazard under anticipated conditions of normal use.

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4.3. Indication of any immediate m	edical attention and special treatment needed
Treatment for Shock	: In the event shock occurs, do the following:
	Keep victim lying down and quiet
	 Keep victim covered with a blanket to keep body temperature at normal 98.6°F
	 Keep victim's head lower than feet to promote blood supply to head and chest
Note to Physicians	: Cooled asphalt may adhere so tenaciously to the skin that attempted removal may cause severe distress to patient. Covering the affected area using commercially available preparations containin the emulsifying agent polysorbate or an antibiotic cream in a polysorbate base is the most effective method to dissolve the solidified asphalt. Asphalt can also be slowly dissolved with vegetable oil, baby oil or mineral oil.
SECTION 5: Firefighting measu	es
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from t	ne substance or mixture
Unusual fire and expolsion hazards	: Do not heat above the flash point of the asphalt cement component (425°F).
5.3. Advice for firefighters	

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Firefighting instructions	: Caution is recommended in the use of water in closed containers since the resulting steam pressure can cause violent eruptions. Follow established confined entry procedures/precautions (NFPA 1500 / OSHA 29 CFR 1910.146).
Protection during firefighting	: Do not enter fire area without proper protective equipment, including NIOSH approved positive- pressure breathing apparatus with full face mask and full protective equipment.

SECTION 6: Accidental release measures				
6.1. Personal precautions, protective e	Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel.			
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action without suitable protective equipment. Avoid contact with skin and eyes.			
Emergency procedures	: Ventilate area.			
6.2. Environmental precautions				
Avoid release to the environment. Prevent entit	ry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.			
6.3. Methods and material for contain	nent and cleaning up			
Methods for cleaning up	: Allow product to cool/solidify and sweep or shovel into suitable containers. Recover as much material as possible for re-use/reclamation.			
6.4. Reference to other sections				
See Section 8. Exposure controls and personal protection.				
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	: Avoid contact with skin and eyes.			
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe storage, inclue	ding any incompatibilities			
Storage conditions	: Not intended for storage.			
Incompatible materials	: Strong oxidizing agents.			
7.3. Specific end use(s)				

No additional information available

SECT	SECTION 8: Exposure controls/personal protection			
8.1.	Control parameters			
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		(8hr TWA)		(S		
SUBSTANCE	CAS No.	PEL (OSHA)*	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Asphalt fume			0.5 mg/m3 ^(I)			See below
Hydrogen sulfide	7783-06-4		1 ppm	20 ppm ceiling	5 ppm	50 ppm peak

(I) Inhalable benzene-soluble fraction; *Refer to OSHA 29 CFR 1910.1000 & 29 CFR 1926.55; 8hr TWA = 8 hour time-weighted average; STEL = Short Term Exposure Limit.

Recommended monitoring method	: NIOSH 5042 (Asphalt Fume), Electrochemical sensor (Hydrogen Sulfide)
8.2. Exposure controls	
Appropriate engineering controls	: Use only outdoors or in a well-ventilated area. A fresh water supply should be available for first aid and washing facilities should be readily available. A safe oil-dissolving skin cleanser and cold packs should be available.
Hand protection	: Wear gloves that protect against thermal burns when handling hot material. Otherwise use leather or thick textile gloves as necessary.
Eye protection	: Safety glasses as necessary.
Skin and body protection	: Non-synthetic long pants and appropriate boots should be used to prevent burns. When the handling of hot emulsion increases the likelihood of burns to the hands, arms or face then non-synthetic long-sleeved shirts and/or a face shield may be required.
Respiratory protection	Not typically required. In those cases where exposures exceed occupational control limits a NIOSH approved respirator is recommended. Air-purifying respirator with combination organic vapor cartridge / particulate filter may be sufficient. Check with protective equipment manufacturer's data.
Environmental exposure controls	: Avoid release to the environment. Do not discharge waste and/or cleaning water via public sewer system. Ensure waste is collected and contained.
Other information	: Do not eat, drink or smoke during use. Hands and/or face should be washed before and after breaks and at the end of each shift.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid when heated; solid at ambient temperatures
Appearance	: Black-brown liquid
Color	: Black-brown
Odor	: Asphalt / Bitumen
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: >371°C (>700°F) (asphalt component)
Flash point	: >232°C (>450°F) (asphalt component)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable
Explosion limits	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Not oxidizing
Vapor pressure	: Not determined
Relative density	: 2.0 to 3.0
Relative vapor density at 20 °C	: Not determined
Solubility	: Negligible in water
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available

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: No data available
: No data available
: No data available
: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3.	Possibility of hazardous reactions			
May rea	act violently with strong oxidizing agents.			
10.4.	Conditions to avoid			
Incomp	atible materials			
10.5.	Incompatible materials			

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Oxidizers

10.6. Hazardous decomposition products

Combustion causes toxic fumes. Combustion products include carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides.

SECTION 11: Toxicological information			
11.1. Information on toxicological effect	cts		
Exposure routes	: Inhalation, Skin Contact, Eye Contact		
Acute toxicity	: Not classified		
Asphalt (8052-42-4)			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rabbit	> 2000 mg/kg		
LC50 inhalation, fume	>94.4 mg/m ³		
Skin corrosion/irritation	: May cause irritation		
Serious eye damage/irritation	: May cause irritation		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Asphalt (8052-42-4)			
NTP	No		
IARC	2B*		
ACGIH	No		
OSHA	No		

*IARC (2013, volume 103) has concluded that there is *inadequate evidence* in humans for the carcinogenicity of occupational exposures to bitumen emissions during road paving and in experimental animals for the carcinogenicity of straight-run bitumens and fume condensates from straight-run bitumens.

Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified

Asphalt (8052-42-4)	
NOAEL rat	28 mg/m ³
LOAEL rat	149 mg/m ³
Aspiration hazard	Not classified

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symptoms

SECTION 12: Ecological information				
12.1. Toxicity				
Asphalt (8052-42-4)				
LL50 (48 hour) Fish	>1000 mg/l			
LL50 (48 hour) Aquatic invertebrates	>1000 mg/l			
EL50 (48 hour) Aquatic plants	>1000 mg/l			
12.2. Persistence and degradability				
Cold Mix Asphalt Binder				
Persistence and degradability	This product is poorly biodegradable.			
12.3. Bioaccumulative potential				
Cold Mix Asphalt Binder				
Bioaccumulative potential	This product has low potential for bioaccumulation.			
12.4. Mobility in soil				
The product has low mobility in soil.				
12.5. Other adverse effects				
	: Avoid release to the environment.			
SECTION 13: Disposal considerations	5			
13.1. Waste treatment methods				
	: Dispose in a safe manner in accordance with local, state and federal regulations. Consult an accredited waste disposal contractor or the local authority for advice.			
Ecology - waste materials	: Avoid release to the environment.			
SECTION 14: Transport information				
Department of Transportation (DOT)				
In accordance with DOT				
Not regulated when transported below 240°C (464°F).				
Additional information				
ADR				
No additional information available				
Transport by sea				
No additional information available				
Air transport No additional information available				
SECTION 15: Regulatory information				
15.1. US Federal regulations				
TSCA (Toxic Substances Control Act) Inventory Status				
All components are listed or are polymer exempt.				
SARA 311/312 Hazard Categories None				
SARA 302 Extremely Hazardous Substances (4 None	0 CFR 355)			
15.2. International regulations				
CANADA No additional information available				
EU-Regulations				

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

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: None.

SDS US (GHS HazCom 2012)

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