

SAFETY DATA SHEET

SDS ID NO .: **Revision Date** 0138MAR019 05/19/2015

1. IDENTIFICATION

Product Name:	Marathon Petroleum Cationic Emulsified Asphalt	
Synonym: Product Code: Chemical Family:	AE-TC; CMS-2 (E-5); CMS-2R; CMS-2S; CRS-1P; CRS-2; CRS-2 (E-3); CRS-2 PM (E-3M); CRS-2L; CRS-2P; CRSP; CSS-H (E-8C); CSS-1; CSS-1H; E-12 0138MAR019 Asphalt	
Recommended Use: Restrictions on Use:	Road Building & Other Service. All others.	
Manufacturer, Importer, or Responsible Party Name and Address: MARATHON PETROLEUM COMPANY LP 539 South Main Street		

SDS information:

Emergency Telephone:

Findlay, OH 45840

1-419-421-3070

1-877-627-5463

2. HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Acute aquatic toxicity	Category 3

Hazards Not Otherwise Classified (HNOC)

Hot liquid may cause thermal burns May release hydrogen sulfide gas

Label elements

EMERGENCY OVERVIEW

Warning

Contact with product at elevated temperatures can result in thermal burns May release highly toxic hydrogen sulfide gas that quickly fatigues the sense of smell Causes skin irritation Causes serious eye irritation Suspected of causing cancer Harmful to aquatic life



Appearance Black-brown solid or semi-solid at room temperature. Liquid at temperatures >70°C. Physical State Liquid

Odor Hydrocarbon / Tar

Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash hands and any possibly exposed skin thoroughly after handling Avoid release to the environment

Precautionary Statements - Response

IF exposed or concerned: Get medical attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical attention IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical attention Take off contaminated clothing and wash before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container at an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is an Cationic Emulsified Asphalt mixed with varying proportions of Stoddard Solvent with a cationic emulsifier. May contain polymer modifiers. Composition varies depending on source of crude and specifications of final product. May contain minor amounts of sulfur, nitrogen and oxygen containing compounds.

Composition Information:

Name	CAS Number	% Concentration
Asphalt	8052-42-4	25-75
Stoddard Solvent	8052-41-3	0-10
Sulfur Compounds	Mixture	0-5
Polymer Modifier (SBS or SBR)	Mixture	0-5
Cationic Emulsifier (contains alkylamines)	Mixture	0.1-3.0
Naphthalene	91-20-3	0.01-0.2
Polycyclic Aromatic Hydrocarbons	Mixture	< 0.1
Hydrogen sulfide	7783-06-4	0-0.1

All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

First Aid Measures

General Advice:

Immediately address any airway, breathing, or circulation concerns. Contact EMS if the

person is having trouble breathing, moving, or staying awake. Perform a for other injuries that may be present including falls or from falling object REMEMBER ABCC (AIRWAY, BREATHING, CIRCULATION, COOLIN	S.
REMEMBER ABCC (AIRWAY, BREATHING, CIRCULATION, COOLIN	G).
Inhalation: If symptoms of overexposure to asphalt fume develop, move to fresh air comfortable for breathing. If symptoms or irritation occur, call a poison co doctor.	
Skin Contact: Hot material: DO NOT DELAY. Immediately immerse or place the affect water stream for at least 15 minutes. Urgent medical attention is required face, eyes, hands, feet, genitalia, and for circumferential or large burn ar MEDICAL ATTENTION IMMEDIATELY. Do not attempt to remove solidified asphalt if not a physician. Leave burn "cold packs") may be used in the event that water is unavailable. Only re adhering to the skin. Be aware that although it is very important to cool to and completely, the overuse of ice may increase the risk of hypothermia	d for burns to the eas. GET n uncovered. Ice (o move clothing if no he burn thoroughly
Cold material: To remove cold asphalt not associated with a burn, wash water or waterless cleaner. If symptoms or irritation or rash occur, call a center or doctor.	
Eye Contact: Hot material: After contact with hot asphalt, lay the person flat on their bac contact lenses if easy to do, and flush with water from a continuous streat minutes by allowing the water to flow over the bridge of the nose to the empticate ATTENTION IMMEDIATELY.	am for at least 15
Cold material: If irritation develops, flush eyes with water. If irritation or read a poison control center or a doctor.	edness persists cal
Ingestion: Ingestion not likely. Small amounts of ingested asphalt usually require no amounts are swallowed, call a poison control center or doctor.	o treatment. If large
Most important signs and symptoms, both short-term and delayed with overexposure	
Adverse Effects: Frequent or prolonged contact with cold material may cause irritation. Adverse Effects: may include skin sensitization. Exposure to hot melted material can cause	
Indication of any immediate medical attention and special treatment needed	
Notes To Physician: Immediately address any airway, breathing, or circulation concerns.	
SKIN & EYE CONTACT: Prolonged flushing/cooling is necessary if the p scene or soon after asphalt contact. Topical antibiotics should be liberall adhered asphalt-skin interface to aid in asphalt removal. A non-adherer Adaptic®, can then be applied and covered with sterile gauze. If topical available, other materials that may be effective include mineral oil, baby (e.g. Vaseline®), mayonnaise, or butter. Do not use organic solvents suc gasoline, or ethanol, as these can result in tissue damage or a fire hazar should be changed every 4 hours until natural separation occurs. Initiate management at that time. Once cooled, adhered asphalt is not harmful t fact, provides a sterile cover over the affected area. The asphalt will deta few days as healing occurs. If it is necessary to remove the asphalt, only approved solvents or warm paraffin should be used to prevent further sk Circumferential asphalt contact can have a tourniquet effect and impair of and nerve function. Create a longitudinal split or cut (analogous to an es be required completely across the residual asphalt to relieve pressure in tissue. For eye exposures with adherent asphalt, consult with an ophthar material has caused burns to the eye, early ophthalmologic evaluation is	y applied to the nt material, such as antibiotics are not oil, petroleum jelly ch as kerosene, rd. Dressings e standard burn o the skin, and in ach itself within a r medically in damage. distal circulation scharotomy) may the underlying limologist. If hot a recommended.
INHALATION: Inhalation exposure can produce toxic effects. Treat intox	ications as

hydrogen sulfide exposures. At high concentrations hydrogen sulfide may produce pulmonary edema, respiratory depression, and/or respiratory paralysis. The first priority in treatment should be the establishment of adequate ventilation and the administration of 100% oxygen. Monitor for respiratory distress. If cough or difficulty inbreathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water fog can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

Unsuitable extinguishing media

Do not use straight streams. Water contact can cause violent eruption of hot asphalt.

Specific hazards arising from the chemical

This product is not a combustible liquid per the OSHA Hazard Communication Standard, but will ignite and burn at temperatures exceeding the flash point.

Hazardous combustion products

Smoke, carbon monoxide, and other products of incomplete combustion.

Explosion data

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge No.

Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Keep run-off water out of sewers and water sources.

Additional firefighting tactics

Not applicable.

NFPA	Health 2	Flammability 1	Instability 0	Special Hazard -	
	6. A		SE MEASURES	6	
Personal precautions:		Keep public away. Isolate and eva	acuate area. Shut off sou	urce if safe to do so.	
Protective equipment:		Use personal protection measures as recommended in Section 8.			
Emergency procedures:	:	Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Notify local health and pollution control agencies, if appropriate.			
Environmental precaution	ons:	Avoid release to the environment. Avoid subsoil penetration.			
Methods and materials f containment:	for	Contain liquid with sand or soil.			
Methods and materials f up: 	for cleaning	Use suitable absorbent materials liquids. Recover and return free p			

7. HANDLING AND STORAGE

Safe Handling Precautions:	Avoid contact with skin, eyes and clothing. Avoid breathing fumes, gas, or vapors. Use only with adequate ventilation. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment. Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements.
	Harmful concentrations of hydrogen sulfide (H2S) gas can accumulate in excavations and low-lying areas as well as the vapor space of storage and bulk transport compartments. Stay upwind and vent open hatches before unloading. Sulfur containing products may cause polysulfide deposits (iron sulfide) to form inside iron storage tanks. These pyrophoric deposits, upon exposure to air, can ignite spontaneously. Keep heating coils and flues in storage tanks, trucks and kettles covered with product (8"). Do not overheat.
Storage Conditions:	Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area.

Incompatible Materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	ACGIH TLV	OSHA PELS:	OSHA - Vacated PELs	NIOSH IDLH
Asphalt	0.5 mg/m³ TWA	-	-	-
8052-42-4				
Stoddard Solvent	100 ppm TWA	TWA: 500 ppm	100 ppm TWA	20000 mg/m ³
8052-41-3		TWA: 2900 mg/m ³	525 mg/m³ TWA	
Sulfur Compounds	-	-	-	-
Mixture				
Polymer Modifier (SBS or SBR)	-	-	-	-
Mixture				
Cationic Emulsifier (contains	-	-	-	-
alkylamines)				
Mixture				
Naphthalene	10 ppm TWA	TWA: 10 ppm	10 ppm TWA	250 ppm
91-20-3	Skin - potential significant	TWA: 50 mg/m ³	50 mg/m ³ TWA	FE
01200	contribution to overall	0	15 ppm STEL	
	exposure by the cutaneous		75 mg/m ³ STEL	
	route			
Polycyclic Aromatic	-	-	-	-
Hydrocarbons				
Mixture				
Hydrogen sulfide	1 ppm TWA	Ceiling: 20 ppm	10 ppm TWA	100 ppm
7783-06-4	5 ppm STEL	Peak: 50 ppm	14 mg/m ³ TWA	
			15 ppm STEL	
Nataa		hee velveterily elected t	21 mg/m ³ STEL	contained in OCUA
Notes:			o provide exposure limits	
			s, even though certain of	those exposure limits
	were vacated in 19	992.		
	Loool or gonoral of	vhoust required in an an	closed area or when there	o io inodoguato
Engineering measures:	ventilation.	xnaust required in an en	closed area of when then	e is inadequate
	ventilation.			
Personal protective equipmen	•			
reisonal protective equipment	<u>L</u>			
Eye protection:	Wear goggles and	faceshield when handli	ng hot material.	
_,	9-99-0-		.g	
Skin and body protection:	Wear insulated glo	oves when handling hot i	naterial. Contact the glov	e manufacturer for
<i>,</i>			akthrough times. Wear the	
			ling and applying hot asp	
			ce operations with hot ma	
	,			
Respiratory protection:			sure to hydrogen sulfide (I	
			preathing apparatus (SCB	
			· · ·	•

operated in a pressure demand or other positive pressure mode should be used. When H2S vapors exceed permissible limits, i.e., in confined spaces or bulk transport loading/unloading, a positive-pressure atmosphere supplying respirator is recommended. Self-contained breathing apparatus should be used for fire fighting.

Provided hydrogen sulfide (H2S) is not detected: if there is potential to exceed the exposure limits for asphalt fumes a NIOSH certified air purifying respirator equipped with organic vapor cartridges/canisters with R or P95 filters should be used. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed when conditions warrant the use of a respirator.

Note: Air purifying respirators are not to be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's instructions), in oxygen deficient atmospheres, (less than 19.5 percent oxygen) or under conditions that are immediately dangerous to life and health (IDLH).

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid Appearance Black-brown solid or semi-solid at room temperature. Liquid at temperatures >70°C. Color Dark brown to black Odor Hydrocarbon / Tar **Odor Threshold** No data available. Values (Method) Property No data available. **Melting Point / Freezing Point** Initial Boiling Point / Boiling Range > 100 °C / > 212 °F (ASTM D6997) Flash Point No data available. **Evaporation Rate** No data available. Flammability (solid, gas) Not applicable. Flammability Limit in Air (%): **Upper Flammability Limit:** No data available. Lower Flammability Limit: No data available. **Explosion limits:** No data available. Vapor Pressure Negligible @ 77°F (ASTM D323) No data available. Vapor Density Specific Gravity / Relative Density 0.9-1.05 Water Solubility Negligible Solubility in other solvents No data available. **Partition Coefficient** No data available. **Decomposition temperature** No data available. pH: Not applicable. No data available. Autoignition Temperature **Kinematic Viscosity** No data available. Dynamic Viscosity No data available. **Explosive Properties** No data available. **VOC Content (%)** No data available. Density No data available.

10. STABILITY AND REACTIVITY

Reactivity

Bulk Density

Chemical stability

The product is non-reactive under normal conditions.

Stable under recommended storage conditions.

Not applicable.

Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	Will not occur.
Conditions to avoid	Sources of heat or ignition.
Incompatible Materials	Strong oxidizing agents.
Hazardous decomposition products	None known under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Potential short-term adverse effects from overexposures

Inhalation	Fumes or vapors from the heated material may be irritating to the respiratory tract. May release highly toxic hydrogen sulfide gas that quickly fatigues the sense of smell.
Eye contact	Vapors may cause eye irritation and sensitivity to light. Contact with hot material may cause thermal burns.
Skin contact	May cause skin irritation. Contact with hot material may cause thermal burns.
Ingestion	If swallowed at ambient temperature no significant adverse effects are expected. Ingestion of large amounts may cause gastrointestinal blockage. Swallowing hot material may cause burns to the mouth, throat, and stomach.

Acute toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
Asphalt	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>94.4 mg/m³ (Rat) 4 h
8052-42-4			
Stoddard Solvent	-	-	-
8052-41-3			
Sulfur Compounds	-	-	> 5 mg/l (Rat) 4 h
Mixture			
Polymer Modifier (SBS or SBR)	-	-	-
Mixture			
Cationic Emulsifier (contains	-	-	-
alkylamines)			
Mixture			
Naphthalene	490 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 340 mg/m³ (Rat) 1 h
91-20-3			
Polycyclic Aromatic Hydrocarbons	-	-	-
Mixture			
Hydrogen sulfide	-	-	444 ppm (Rat) 4 h
7783-06-4			

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

PETROLEUM ASPHALT: Eye and upper respiratory tract irritation has been reported in some asphalt workers (paving and roofing operations) but they are typically mild and transient. Some studies indicate that asphalt paving workers may experience lower respiratory tract symptoms (e.g., coughing, wheezing, and shortness of breath) and pulmonary function changes. Other studies of asphalt workers found no consistent relationship between exposure to asphalt fumes and pulmonary function. Increased levels of 1-hydroxypyrene (a marker for exposure to polycyclic aromatic hydrocarbons) have been observed in the urine of asphalt workers. Genotoxicity studies (e.g., DNA adducts in the urine) of asphalt workers have been largely inconclusive.

A slight increase in lung cancer mortality was reported in a study of European workers exposed to paving and mastic asphalt, but conclusions were equivocal. A follow-up case-control epidemiology study of asphalt paving workers sponsored by the International Association for Research in Cancer (IARC) concluded that there was no evidence that

	asphalt exposure was linked to lung cancer. An increase in skin tumors was observed in lifetime studies of laboratory rodents exposed to extracts of asphalt (bitumen). The relevance of these studies to humans is not clear. No increase in skin tumors was observed in a lifetime bioassay where laboratory mice were treated with paving fume condensates. No increase in lung or other tumors were observed in a lifetime inhalation study in laboratory rats exposed to fumes from paving asphalt.
	ASPHALTS USED IN ROOFING OPERATIONS: Some asphalts including roofing flux are further processed (oxidized/air-rectified) by the user or customer before use. An increased incidence of skin tumors was observed in a mouse skin carcinogenicity study where animals were exposed to condensed fumes collected from an oxidized roofing asphalt (BURA Type III) at above 450°F. Additional studies where mice were exposed to oxidized roofing asphalt fume condensates both as a tumor initiator and as a tumor promoter indicate that roofing fume condensate caused tumors as a result of initiation.
	MIDDLE DISTILLATES, PETROLEUM: Long-term repeated (lifetime) skin exposure to similar materials has been reported to result in an increase in skin tumors in laboratory rodents. The relevance of these findings to humans is not clear at this time.
	HYDROGEN SULFIDE: Hydrogen sulfide gas has an unpleasant odor that diminishes with increased exposure. Eye irritation may occur at levels above 4 ppm. Olfactory fatigue occurs rapidly at levels of 50 ppm or higher. Odor is not a reliable warning property. Respiratory effects include irritation with possible pulmonary edema at levels above 50 ppm. At 500 ppm immediate loss of consciousness and death can occur. NIOSH has determined that 100 ppm hydrogen sulfide is immediately dangerous to life and health (IDLH).
Adverse effects related to the physic	ical, chemical and toxicological characteristics

Signs and Symptoms	Frequent or prolonged contact with cold material may cause irritation. Rash. Contact with
	hot material may cause thermal burns.

Sensitization Not expected to be a skin or respiratory sensitizer.

Mutagenic effects None known.

Carcinogenicity Name	ACGIH	IARC	NTP	OSHA
	(Class)	(Class)		•••••
Asphalt 8052-42-4	Not classifiable (A4)	Emissions of straight-run asphalt from paving operations - Possible human carcinogen (2B)	Not Listed	Not Listed
Stoddard Solvent 8052-41-3	Not Listed	Not Listed	Not Listed	Not Listed
Sulfur Compounds Mixture	Not Listed	Not Listed	Not Listed	Not Listed
Polymer Modifier (SBS or SBR) Mixture	Not Listed	Not Listed	Not Listed	Not Listed
Cationic Emulsifier (contains alkylamines) Mixture	Not Listed	Not Listed	Not Listed	Not Listed
Naphthalene 91-20-3	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not Listed
Polycyclic Aromatic Hydrocarbons Mixture	Suspected human carcinogen(A2)	Carcinogenic to humans (1)	Reasonably anticipated to be a human carcinogen	Not Listed
Hydrogen sulfide 7783-06-4	Not Listed	Not Listed	Not Listed	Not Listed

Reproductive toxicity

None known.

Specific Target Organ Toxicity (STOT) - single exposure	Not classified.
Specific Target Organ Toxicity (STOT) - repeated exposure	Not classified.

Aspiration hazard

Potential for aspiration if swallowed.

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product should be considered harmful to aquatic organisms.

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Asphalt 8052-42-4	-	-	-	-
Stoddard Solvent 8052-41-3	-	-	-	-
Sulfur Compounds Mixture	-	-	-	-
Polymer Modifier (SBS or SBR) Mixture	-	-	-	-
Cationic Emulsifier (contains alkylamines) Mixture	-	-	-	-
Naphthalene 91-20-3	-	96-hr LC50 = 0.91-2.82 mg/l Rainbow trout (static) 96-hr LC50 = 1.99 mg/l Fathead minnow (static)	-	48-hr LC50 = 1.6 mg/l Daphnia magna
Polycyclic Aromatic Hydrocarbons Mixture	-	-	-	-
Hydrogen sulfide 7783-06-4	-	96-hr LC50 = 0.016 mg/l Fathead minnow 96-hr LC50 = 0.013 mg/l Rainbow trout	-	-

Persistence and degradability	Not expected to be readily biodegradable.	
Bioaccumulation	Has the potential to bioaccumulate.	
Mobility in soil	Not classified in terms of mobility in air, soil and water.	
Other adverse effects	No information available.	

13. DISPOSAL CONSIDERATIONS

Description of Waste Residues

No information available.

Safe Handling of Wastes

Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required.

Disposal of Wastes / Methods of Disposal

The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

Methods of Contaminated Packaging Disposal

Empty containers should be completely drained and then discarded or recycled, if possible. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (49 CFR 172.101): UN Proper Shipping Name: UN/Identification No: Class: Packing Group:

TDG (Canada): UN Proper Shipping Name: UN/Identification No: Transport Hazard Class(es): Packing Group: Not Regulated Not applicable Not applicable. Not applicable.

Not Regulated Not applicable. Not applicable. Not applicable.

15. REGULATORY INFORMATION

US Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA Chemical Inventory.

EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302:

This product may contain component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Asphalt	NA
Stoddard Solvent	NA
Sulfur Compounds	NA
Polymer Modifier (SBS or SBR)	NA
Cationic Emulsifier (contains alkylamines)	NA
Naphthalene	NA
Polycyclic Aromatic Hydrocarbons	NA
Hydrogen sulfide	500

SARA Section 304:

This product may contain component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	Hazardous Substances RQs
Asphalt	NA
Stoddard Solvent	NA
Sulfur Compounds	NA
Polymer Modifier (SBS or SBR)	NA
Cationic Emulsifier (contains alkylamines)	NA
Naphthalene	100 lb final RQ
	45.4 kg final RQ
Polycyclic Aromatic Hydrocarbons	1 lb final RQ
	0.454 kg final RQ
Hydrogen sulfide	100

SARA Section 311/312:

The following EPA hazard categories apply to this product:

Acute Health Hazard Chronic Health Hazard

SARA Section 313:

This product may contain component(s), which if in exceedance of the de minimus

threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic Release Reporting (Form R).

Name	CERCLA/SARA 313 Emission reporting:	
Asphalt	None	
Stoddard Solvent	None	
Sulfur Compounds	None	
Polymer Modifier (SBS or SBR)	None	
Cationic Emulsifier (contains alkylamines)	None	
Naphthalene	0.1 % de minimis concentration	
Polycyclic Aromatic Hydrocarbons	0.1 % Supplier notification limit	
Hydrogen sulfide	1.0 % de minimis concentration	

State and Community Right-To-Know Regulations: The following component(s) of this material are identified on the regulatory lists below:

Asphalt	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
	SN 0170
New Jersey Right-To-Know: Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	
Florida Substance List:	Present (cutback, liquid rapid-curing, fumes) Not Listed
Rhode Island Right-To-Know:	Not Listed
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous	Not Listed
Substances:	
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous	Not Listed
Substances List:	
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	
Stoddard Solvent	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1736
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous	Not Listed
Substances:	
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous	Not Listed
Substances List:	
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	
Sulfur Compounds	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed
Pennsylvania Right-To-Know:	Not Listed
Massachusetts Right-To Know:	Not Listed
Florida Substance List:	Not Listed

0138MAR019 Marathon Petroleum Cationic Emulsified Asphalt

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Not Listed Not Listed Not Listed Not Listed Not Listed Carcinoger SN 1322 S Environme Present Not Listed Toxic; Flam Not Listed

Not Listed Carcinogen, initial date 4/19/02 SN 1322 SN 3758 Environmental hazard Present (particulate) Present Not Listed Foxic; Flammable Not Listed Not Listed Not Listed

Pennsylvania RTK - Special Hazardous Not Listed Substances: New Jersey - Special Hazardous Substances: Carcinogen New Jersey - Environmental Hazardous SN 1322 TPQ: 500 lb (Reportable at the de minimis quantity of Substances List: >0.1%) Illinois - Toxic Air Contaminants: Present New York - Reporting of Releases Part 597 -100 lb RQ (air); 1 lb RQ (land/water) List of Hazardous Substances: Polycyclic Aromatic Hydrocarbons Louisiana Right-To-Know: Not Listed California Proposition 65: Carcinogen New Jersey Right-To-Know: SN 3758 Pennsylvania Right-To-Know: Environmental hazard; Special hazardous substance Massachusetts Right-To Know: Carcinogen; Extraordinarily hazardous Florida Substance List: Not Listed Rhode Island Right-To-Know: Present Michigan Critical Materials Register List: 10 lb Annual usage threshold Massachusetts Extraordinarily Hazardous Substances: Carcinogen; extraordinarily hazardous California - Regulated Carcinogens: Not Listed Pennsylvania RTK - Special Hazardous Present Substances: New Jersey - Special Hazardous Substances: Carcinogen; mutagen; teratogen New Jersey - Environmental Hazardous SN 3758 TPQ: 500 lb (If you have >500 lbs in combination of any Substances List: of the listed chemicals, you are to report them under the category heading - N590 (that is, do not report the individual chemicals or their CAS numbers)) Illinois - Toxic Air Contaminants: Present 1 lb RQ (air); 1 lb RQ (land/water) New York - Reporting of Releases Part 597 -List of Hazardous Substances: Hydrogen sulfide Louisiana Right-To-Know: Not Listed California Proposition 65: Not Listed New Jersey Right-To-Know: SN 1017 Pennsylvania Right-To-Know: Environmental hazard Massachusetts Right-To Know: Extraordinarily hazardous Florida Substance List: Not Listed Rhode Island Right-To-Know: Not Listed Michigan Critical Materials Register List: Not Listed Massachusetts Extraordinarily Hazardous Substances: Extraordinarily hazardous California - Regulated Carcinogens: Not Listed Pennsylvania RTK - Special Hazardous Not Listed Substances: New Jersey - Special Hazardous Substances: Flammable - fourth degree New Jersey - Environmental Hazardous SN 1017 TPQ: 500 lb Substances List: Illinois - Toxic Air Contaminants: Not Listed New York - Reporting of Releases Part 597 -100 lb RQ (air); 100 lb RQ (land/water) List of Hazardous Substances: Canada DSL/NDSL Inventory:

Canadian Regulatory Information:

This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Asphalt	Uncontrolled product according to WHMIS classification criteria	-
Stoddard Solvent	B3,D2B	1%

0138MAR019 Marathon Petroleum Cationic Emulsified Asphalt

Naphthalene	B4,D2A	0.1%
Polycyclic Aromatic Hydrocarbons	D2A,D2B	0.1%
Hydrogen sulfide	A,B1,D1A,D2B	1%



Note:

Not applicable.

16. OTHER INFORMATION

Prepared By

Toxicology and Product Safety

Revision Notes

Revision Date 05/19/2015

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 is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not 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.