

SAFETY DATA SHEET

SDS ID NO.: 0141MAR019 **Revision Date** 11/23/2016

1. IDENTIFICATION

Product Name: Marathon Petroleum Medium Cure Asphalt

Synonym: Marathon Medium Cure Asphalt; Medium Cure Cut Back Asphalt; Medium Cure Asphalt;

MC-13; MC-30; MC-70; MC-250; MC-400; MC-500; MC-600; MC-800; MC-3000

Product Code: 0141MAR019

Chemical Family: Asphalt

Recommended Use: Road Building & Other Service.

Restrictions on Use: All others.

Manufacturer, Importer, or Responsible Party Name and Address:

MARATHON PETROLEUM COMPANY LP 539 South Main Street Findlay, OH 45840

SDS information: 1-419-421-3070 **Emergency Telephone:** 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)

Flammable liquids	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1A
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

Hazards Not Otherwise Classified (HNOC)

Hot liquid may cause thermal burns May release hydrogen sulfide gas

Label elements

EMERGENCY OVERVIEW

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Danger

FLAMMABLE LIQUID AND VAPOR

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

May cause an allergic skin reaction

May cause respiratory irritation

May cause drowsiness or dizziness

Suspected of causing genetic defects

Mav cause cancer

Suspected of damaging fertility or the unborn child

Toxic to aquatic life with long lasting effects



Appearance Brown to black 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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools.

Take precautionary measures against static discharge

Avoid breathing fume/gas/vapors

Use only outdoors or in a well-ventilated area

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

Wash hands and any possibly exposed skin thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace

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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation or rash occurs: Get medical attention

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

Collect spillage

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Keep container tightly closed

Store locked up

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Precautionary Statements - Disposal

Dispose of contents/container at an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Medium Cure Asphalt is an asphalt mixed with varying proportions of kerosene. Composition varies depending on source of crude and specifications of final product. May contain minor amounts of sulfur, nitrogen and oxygen containing compounds. Different asphalt grades may also contain an anti-strip additive.

Composition Information:

Name	CAS Number	% Concentration
Asphalt	8052-42-4	50-85
Residues (petroleum), vacuum	64741-56-6	0-50
Kerosine (petroleum)	8008-20-6	0-45
Sulfur Compounds	Mixture	0.5-5
Polyamine	Proprietary	0-1
Polycyclic Aromatic Hydrocarbons	Mixture	<1
Naphthalene	91-20-3	0.01-0.2
Hydrogen sulfide	7783-06-4	0-0.01

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

Immediately address any airway, breathing, or circulation concerns. Contact EMS if the **General Advice:**

person is having trouble breathing, moving, or staying awake. Perform a quick assessment

for other injuries that may be present including falls or from falling objects.

REMEMBER ABCC (AIRWAY, BREATHING, CIRCULATION, COOLING).

Inhalation: If symptoms of overexposure to asphalt fume develop, move to fresh air in a position

comfortable for breathing. If symptoms or irritation occur, call a poison control center or

doctor.

Skin Contact: Hot material: DO NOT DELAY. Immediately immerse or place the affected skin under a

water stream for at least 15 minutes. Urgent medical attention is required for burns to the face, eyes, hands, feet, genitalia, and for circumferential or large burn areas. GET

MEDICAL ATTENTION IMMEDIATELY.

Do not attempt to remove solidified asphalt if not a physician. Leave burn uncovered. Ice (or "cold packs") may be used in the event that water is unavailable. Only remove clothing if not adhering to the skin. Be aware that although it is very important to cool the burn thoroughly

and completely, the overuse of ice may increase the risk of hypothermia.

Cold material: To remove cold asphalt not associated with a burn, wash with soap and water or waterless cleaner. If symptoms or irritation or rash occur, call a poison control

center or doctor.

Eye Contact: Hot material: After contact with hot asphalt, lay the person flat on their back, remove

contact lenses if easy to do, and flush with water from a continuous stream for at least 15 minutes by allowing the water to flow over the bridge of the nose to the eyes. GET

MEDICAL ATTENTION IMMEDIATELY.

Cold material: If irritation develops, flush eyes with water. If irritation or redness persists call

a poison control center or a doctor.

Ingestion: Ingestion not likely. Small amounts of ingested asphalt usually require no treatment. If large

amounts are swallowed, call a poison control center or doctor.

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Most important signs and symptoms, both short-term and delayed with overexposure

Adverse Effects:

Contact with cold material may cause irritation or sensitization. Exposure to hot material may cause thermal burns. Hydrogen sulfide can cause respiratory paralysis and death, depending on the concentration and duration of exposure. Do not rely on ability to smell vapors, since loss of smell rapidly occurs. Effects of overexposure include irritation of the nose and throat, nausea, vomiting, diarrhea, abdominal pain and signs of nervous system depression (e.g. headache, drowsiness, dizziness, loss of coordination and fatigue), irregular heartbeats, pulmonary edema, weakness and convulsions.

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 patient is treated on scene or soon after asphalt contact. Topical antibiotics should be liberally applied to the adhered asphalt-skin interface to aid in asphalt removal. A non-adherent material, such as Adaptic®, can then be applied and covered with sterile gauze. If topical antibiotics are not available, other materials that may be effective include mineral oil, baby oil, petroleum jelly (e.g. Vaseline®), mayonnaise, or butter. Do not use organic solvents such as kerosene, gasoline, or ethanol, as these can result in tissue damage or a fire hazard. Dressings should be changed every 4 hours until natural separation occurs. Initiate standard burn management at that time. Once cooled, adhered asphalt is not harmful to the skin, and in fact, provides a sterile cover over the affected area. The asphalt will detach itself within a few days as healing occurs. If it is necessary to remove the asphalt, only medically approved solvents or warm paraffin should be used to prevent further skin damage. Circumferential asphalt contact can have a tourniquet effect and impair distal circulation and nerve function. Create a longitudinal split or cut (analogous to an escharotomy) may be required completely across the residual asphalt to relieve pressure in the underlying tissue. For eye exposures with adherent asphalt, consult with an ophthalmologist. If hot material has caused burns to the eye, early ophthalmologic evaluation is recommended.

INHALATION: Inhalation exposure can produce toxic effects. Treat intoxications 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. Specific hazards arising from the chemical.

Hazardous combustion products

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

Explosion data

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

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Asphalt

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

FIRES INVOLVING TANKS OR CAR/TRAILER LOADS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after the fire is out. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles: if this is impossible, withdraw from area and let fire burn.

EVACUATION: Consider initial downwind evacuation for at least 1000 feet. If tank, rail car or tank truck is involved in a fire, ISOLATE for 5280 feet (1 mile) in all directions; also, consider initial evacuation of 5280 feet (1 mile) in all directions.

NFPA Health 2 Flammability 2 Instability 0 Special Hazard -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep public away. Isolate and evacuate area. Shut off source 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

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appropriate.

Environmental precautions: Avoid release to the environment. Avoid subsoil penetration.

Methods and materials for

containment:

up:

Contain liquid with sand or soil.

Methods and materials for cleaning Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual

liquids. Recover and return free product to proper containers.

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 theroughly after handling. Use good personal byging.

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

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0141MAR019 Marathon Petroleum Medium Cure Asphalt

Asphalt 8052-42-4	0.5 mg/m³ TWA	-	-	-
Residues (petroleum), vacuum 64741-56-6	Asphalt (Bitumen) Fume, as benzene-soluble aerosol, inhalable fraction 0.5 mg/m³ TWA	-	-	-
Kerosine (petroleum) 8008-20-6	200 mg/m³ TWA Skin - potential significant contribution to overall exposure by the cutaneous route	-	-	-
Sulfur Compounds Mixture	-	-	-	-
Polyamine Proprietary	-	-	-	-
Polycyclic Aromatic Hydrocarbons Mixture	-	-	-	-
Naphthalene 91-20-3	10 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 10 ppm TWA: 50 mg/m³	10 ppm TWA 50 mg/m³ TWA 15 ppm STEL 75 mg/m³ STEL	250 ppm
Hydrogen sulfide 7783-06-4	1 ppm TWA 5 ppm STEL	Ceiling: 20 ppm Peak: 50 ppm	10 ppm TWA 14 mg/m³ TWA 15 ppm STEL 21 mg/m³ STEL	100 ppm

Notes:

The manufacturer has voluntarily elected to provide exposure limits contained in OSHA's 1989 air contaminants standard in its SDSs, even though certain of those exposure limits were vacated in 1992.

Engineering measures:

Local or general exhaust required in an enclosed area or when there is inadequate

ventilation.

Personal protective equipment

Eye protection:

Wear goggles and faceshield when handling hot material.

Skin and body protection:

Wear insulated gloves when handling hot material. Contact the glove manufacturer for specific advice on glove selection and breakthrough times. Wear the appropriate thermal resistant clothing and footwear when handling and applying hot asphalt. Rubberized suits or coats may be needed for some maintenance operations with hot material.

Respiratory protection:

Where there is potential for airborne exposure to hydrogen sulfide (H2S) above exposure limits, a NIOSH approved, self-contained breathing apparatus (SCBA) or equivalent 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

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skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

Appearance Brown to black solid or semi-solid at room temperature. Liquid at temperatures > 70°C.

Color Light to dark brown, Black

Hydrocarbon / Tar Odor No data available. **Odor Threshold**

Property Values (Method) **Melting Point / Freezing Point** No data available.

134-704 °C / 274-1300 °F (ASTM D2887) Initial Boiling Point / Boiling Range

> 37.8 °C / > 100 °F (ASTM D92) **Flash Point**

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 1 -10 mm Hg @ 160 °F (ASTM D323)

Vapor Density No data available.

Specific Gravity / Relative Density 1.05 [0.9-1.05 @ 15.6°C (ASTM D70)]

Water Solubility Negligible

Solubility in other solvents No data available. **Partition Coefficient** No data available. **Decomposition temperature** No data available. Not applicable. :Ha

No data available. **Autoignition Temperature**

>30 cSt @ 140°F (ASTM D2170) **Kinematic Viscosity**

Dynamic Viscosity No data available. **Explosive Properties** No data available. **VOC Content (%)** No data available. **Density** No data available. **Bulk Density** Not applicable.

10. STABILITY AND REACTIVITY

Reactivity The product is non-reactive under normal conditions.

Stable under recommended storage conditions. **Chemical stability**

Possibility of hazardous reactions None under normal processing.

Will not occur. Hazardous polymerization

Sources of heat or ignition. Conditions to avoid

Incompatible Materials Strong oxidizing agents.

Hazardous decomposition products None known under normal conditions of use.

TOXICOLOGICAL INFORMATION

Potential short-term adverse effects from overexposures

Fumes or vapors from the heated material may be irritating to the respiratory tract. May Inhalation

cause drowsiness or dizziness. May release highly toxic hydrogen sulfide gas that quickly

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fatigues the sense of smell. Concentrations of >1000 ppm will cause immediate unconsciousness and death through respiratory paralysis.

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. May cause an allergic skin reaction. 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 8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>94.4 mg/m³ (Rat) 4 h
Residues (petroleum), vacuum 64741-56-6	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>94.4 mg/m³ (Rat) 4 h
Kerosine (petroleum) 8008-20-6	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.28 mg/L (Rat) 4 h
Sulfur Compounds Mixture	-	-	> 5 mg/l (Rat) 4 h
Polyamine Proprietary	-	-	-
Polycyclic Aromatic Hydrocarbons Mixture	-	-	-
Naphthalene 91-20-3	490 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 340 mg/m³ (Rat) 1 h
Hydrogen sulfide 7783-06-4	-	-	444 ppm (Rat) 4 h

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.

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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.

POLYCYCLIC AROMATIC HYDROCARBONS: This product contains polycyclic aromatic hydrocarbons (PAH) at a level of >0.1%. Some PAH's that have been identified in this product such as benzo(a)pyrene, benz(a)anthracene and similar substances have been shown to be carcinogenic in experimental animals. An increased risk of cancer has been observed in workers employed in the aluminum production, coal gasification, coal-tar pitch, coke production and iron and steel industries that had been occupationally exposed to PAH'. Since these kinds of PAHs have been measured at high levels in air samples taken in these industries, The International Agency for Research on Cancer (IARC) has concluded that these PAHs are probably carcinogenic to humans.

NAPHTHALENE: Severe jaundice, neurotoxicity (kernicterus) and fatalities have been reported in young children and infants as a result of hemolytic anemia from overexposure to naphthalene. Persons with glucose 6-phosphate dehydrogenase (G6PD) deficiency are more prone to the hemolytic effects of naphthalene. Adverse effects on the kidney have been reported in persons overexposed to naphthalene but these effects are believed to be a consequence of hemolytic anemia, and not a direct effect. Hemolytic anemia has been observed in laboratory animals exposed to naphthalene. Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory tract. Cataracts and other adverse effects on the eye have been observed in laboratory animals exposed to high levels of naphthalene. Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) in vitro. Naphthalene has been classified as Possibly Carcinogenic to Humans (2B) by IARC, based on findings from studies in laboratory animals.

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 physical, chemical and toxicological characteristics

Signs and Symptoms

Contact with cold material may cause irritation or sensitization. Contact with hot material may cause thermal burns. Hydrogen sulfide can cause respiratory paralysis and death, depending on the concentration and duration of exposure. Do not rely on ability to smell vapors, since loss of smell rapidly occurs. Effects of overexposure include irritation of the nose and throat, nausea, vomiting, diarrhea, abdominal pain and signs of nervous system depression (e.g. headache, drowsiness, dizziness, loss of coordination and fatigue), irregular heartbeats, pulmonary edema, weakness and convulsions.

Sensitization

May cause sensitization by skin contact. Not expected to be a respiratory sensitizer.

Mutagenic effects

Suspected of causing genetic defects.

Carcinogenicity

May cause cancer.

Cancer designations are listed in the table below

Name	ACGIH (Class)	IARC (Class)	NTP	OSHA
Asphalt 8052-42-4	Not classifiable (A4)	Emissions of straight-run asphalt from paving operations -	Not Listed	Not Listed
		Possible human carcinogen		

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		(2B)		
Residues (petroleum), vacuum 64741-56-6	Not Listed	Bitumens, occupational exposure to straight-run bitumens and their emissions during road paving Possible human carcinogen (2B)	Not Listed	Not Listed
Kerosine (petroleum) 8008-20-6	Confirmed animal carcinogen (A3)	Not Classifiable (3)	Not Listed	Not Listed
Sulfur Compounds Mixture	Not Listed	Not Listed	Not Listed	Not Listed
Polyamine Proprietary	Not Listed	Not Listed	Not Listed	Not Listed
Polycyclic Aromatic Hydrocarbons Mixture	Suspected human carcinogen(A2)	Carcinogenic to humans (1)	Reasonably anticipated to be a human carcinogen	Not Listed
Naphthalene 91-20-3	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not Listed
Hydrogen sulfide 7783-06-4	Not Listed	Not Listed	Not Listed	Not Listed

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (STOT) - single exposure

Respiratory system. Central nervous system.

Specific Target Organ Toxicity (STOT) - repeated exposure

Not classified.

Aspiration hazard Not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product should be considered toxic to aquatic organisms, with the potential to cause long lasting adverse effects in the aquatic environment.

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Asphalt 8052-42-4	-	-	-	-
Residues (petroleum), vacuum 64741-56-6	-	96-hr LC50 = 48 mg/l Zebra danio (semi-static)	-	-
Kerosine (petroleum) 8008-20-6	72-hr EL50 = 5.0-11 mg/l Algae	96-hr LL50 = 18-25 mg/l Fish	-	48-hr EL50 = 1.4-21 mg/l Invertebrates
Sulfur Compounds Mixture	-	-	-	-
Polyamine Proprietary	-	-	-	-
Polycyclic Aromatic Hydrocarbons 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
Hydrogen sulfide 7783-06-4	-	96-hr LC50 = 0.016 mg/l Fathead minnow 96-hr LC50 = 0.013 mg/l Rainbow trout	-	-

<u>Persistence and degradability</u> Not expected to be readily biodegradable.

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Bioaccumulation Not expected to bioaccumulate in aquatic organisms.

Mobility in soil Not likely to move rapidly with surface or groundwater flows because of its low water

solubility.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Description of Waste Residues

This material may be a flammable liquid waste.

Safe Handling of Wastes

Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required. Use appropriate grounding and bonding practices. Use only non-sparking tools. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. No smoking.

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. Do not cut, drill, grind or weld on empty containers since explosive residues may be present. 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:
UN 1999
Class:
3
Packing Group:
III

TDG (Canada):

UN Proper Shipping Name:
UN/Identification No:
UN 1999
Transport Hazard Class(es):
Packing Group:

Tars, Liquid
UN 1999
UN 1999
III

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
Residues (petroleum), vacuum	NA
Kerosine (petroleum)	NA
Sulfur Compounds	NA
Polyamine	NA
Polycyclic Aromatic Hydrocarbons	NA
Naphthalene	NA

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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
Residues (petroleum), vacuum	NA
Kerosine (petroleum)	NA
Sulfur Compounds	NA
Polyamine	NA
Polycyclic Aromatic Hydrocarbons	1 lb final RQ
	0.454 kg final RQ
Naphthalene	100 lb final RQ
	45.4 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

Fire 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
Residues (petroleum), vacuum	None
Kerosine (petroleum)	None
Sulfur Compounds	None
Polyamine	None
Polycyclic Aromatic Hydrocarbons	0.1 % Supplier notification limit
Naphthalene	0.1 % de minimis concentration
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 New Jersey Right-To-Know: SN 0170 Pennsylvania Right-To-Know: Present

Massachusetts Right-To Know: Present (cutback, liquid rapid-curing, fumes)

Florida Substance List: 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: Residues (petroleum), vacuum

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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
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:	Present
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	
Kerosine (petroleum)	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1091
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	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
Nieuw lene eus. En des marentel Henry adeur	SN 1091 TPQ: 10000 lb (Under N.J.A.C. 7:1G, environmental
New Jersey - Environmental Hazardous	
New Jersey - Environmental Hazardous Substances List:	hazardous substances in mixtures such as gasoline or new and
	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories)
Substances List: Illinois - Toxic Air Contaminants:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories)
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed Not Listed
Substance's List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed Not Listed Not Listed Not Listed Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed Not Listed Not Listed Not Listed
Substance's List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substance's List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substance's List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substance's List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substance's List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substance's List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Polyamine	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Polyamine Louisiana Right-To-Know:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Polyamine Louisiana Right-To-Know: California Proposition 65:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed
Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Sulfur Compounds Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 - List of Hazardous Substances: Polyamine Louisiana Right-To-Know:	hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Not Listed

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Pennsylvania Right-To-Know: Not Listed Massachusetts Right-To Know: Not Listed Florida Substance List: 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: Polycyclic Aromatic Hydrocarbons

Louisiana Right-To-Know:Not ListedCalifornia Proposition 65:CarcinogenNew 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:

Rhode Island Right-To-Know:

Not Listed
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

Present

heading - N590 (that is, do not report the individual chemicals or

their CAS numbers))

Illinois - Toxic Air Contaminants:

New York - Reporting of Releases Part 597 - 1 lb RQ (air); 1 lb RQ (land/water)

List of Hazardous Substances:

Naphthalene

Louisiana Right-To-Know: Not Listed

California Proposition 65: Carcinogen, initial date 4/19/02

New Jersey Right-To-Know: SN 1322 SN 3758

Pennsylvania Right-To-Know: Environmental hazard Present (particulate)

Massachusetts Right-To Know:

Florida Substance List:

Rhode Island Right-To-Know:

Present

Not Listed

Toxic; Flammable

Michigan Critical Materials Register List:

Massachusetts Extraordinarily Hazardous Substances:

California - Regulated Carcinogens:

Pennsylvania RTK - Special Hazardous

Not Listed

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:

Hydrogen sulfide

Louisiana Right-To-Know:

California Proposition 65:

New Jersey Right-To-Know:

Not Listed
Not Listed
Not Listed
Not Listed
Not Listed
Not Listed

Pennsylvania Right-To-Know: Environmental hazard
Massachusetts Right-To Know: Extraordinarily hazardous

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Florida Substance List:

Rhode Island Right-To-Know:

Michigan Critical Materials Register List:

Not Listed

Not Listed

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

or are exempt.

Canadian Regulatory Information: 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

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regulations.

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Asphalt	Uncontrolled product according to WHMIS classification criteria	-
Residues (petroleum), vacuum	D2B	1%
Kerosine (petroleum)	B3,D2B	1%
Polyamine	D2B,E	1%
Polycyclic Aromatic Hydrocarbons	D2A,D2B	0.1%
Naphthalene	B4,D2A	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 11/23/2016

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.

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