

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 01/16/2024 Date of issue: 10/29/2015 Version: 3.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture Product Name: MC-250 + additive; MC-450 + additive; Jasa HP-5; Jasa HP-10

1.2. Intended Use of the Product

Use of the substance/mixture: Cold Patch

1.3. Name, Address, and Telephone of the Responsible Party

Company:

Russell Standard 285 Kappa Drive Suite 300 Pittsburgh, PA 15238

Directory:(800) 323-3053Main:(412) 449-0700Fax:(412) 449-0704

www.russellstandard.com

1.4. Emergency Telephone Number

Emergency Number: (800) 255-3924 (24 hours)

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US classification:

FIGIN. LIQ. 3	HZZO
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Carc. 2	H351
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Acute 3	H402
Aquatic Chronic 2	H411

Full text of H-phrases: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US):



Signal Word (GHS-US): Danger

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Hazard Statements (GHS-US):

- H226 Flammable liquid and vapor.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H402 Harmful to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-US):

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. No smoking.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical, ventilating, and lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe vapors, mist, or spray.
- P264 Wash hands, forearms, and other exposed areas thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing, and eye protection.
- P301+P310 If swallowed: Immediately call a poison center or doctor.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (see section 4 on this SDS).
- P331 Do NOT induce vomiting.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P370+P378 In case of fire: Use appropriate media (see section 5) to extinguish.
- P391 Collect spillage.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local, regional, national, and international regulations.
- P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. May defat skin and cause contact dermatitis. Contains a small amount of hydrogen sulfide. Hydrogen sulfide is a

fatal and highly flammable gas with a rotten egg odor that quickly causes odor fatigue. Although this product is not flammable, it may create flammable levels of hydrogen sulfide if stored or used improperly. Heating of this product and storage under elevated temperatures or over long periods of time may release higher amounts of hydrogen sulfide. Hydrogen sulfide is also an asphyxiant. If stored under heat for extended periods or significantly agitated, this material might evolve or release hydrogen sulfide, a flammable gas, which can raise and widen this material's actual flammability limits and significantly lower its auto-ignition temperature. Hydrogen sulfide is a toxic gas that can be fatal. Product may contain low levels of polynuclear aromatic hydrocarbons (PNAs). Evidence from animal studies indicates that prolonged exposure to various PNAs can cause cancer of the lungs, skin and other organs.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Asphalt	(CAS No) 8052-42-4	70 - 90	Carc. 2, H351
Fuels, diesel, no. 2	(CAS No) 68476-34-6	9.5 - 30	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 3, H402 Aquatic Chronic 2, H411
Proprietary fatty amine derivative	(CAS No) Proprietary	<= 2	Skin Corr. 1B, H314 Eye Dam. 1, H318
Naphthalene	(CAS No) 91-20-3	0.002 - 0.06	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

*The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: In contact with cold form: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists. In contact with molten form: Cool skin rapidly with cold water after contact with molten product. Removal of solidified molten material from skin requires medical assistance.

First-aid Measures After Eye Contact: In contact with cold form: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention. In contact with molten form: Protect skin and eyes from contact with molten material. Removal of solidified molten material from the eyes requires medical assistance.

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First-aid Measures After Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes serious eye irritation. Causes skin irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure (thymus, liver, bone marrow). May be fatal if swallowed and enters airways. Risk of thermal burns on contact with molten product.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation. WARNING: irritating and toxic hydrogen sulfide gas may be present. Greater than 15-20ppm continuous exposure can cause mucous membrane and respiratory tract irritation. 50-500 ppm can cause headache, nausea, and dizziness. Continued exposure at these levels can lead to loss of reasoning and balance, difficulty in breathing, fluid in the lungs, and possible loss of consciousness. Greater than 500ppm can cause rapid unconsciousness and death if not promptly revived.

Symptoms/Injuries After Skin Contact: Causes skin irritation. Redness, pain, swelling, itching, burning, dryness, and dermatitis. Risk of thermal burns on contact with molten product.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation. Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure (thymus, liver, bone marrow).

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If burned by hot product, cool affected area immediately with cool water. Do not attempt to remove solidified material from skin. Seek medical attention immediately. If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Alcohol-resistant foam. Carbon dioxide (CO_2) . Dry chemical powder. Earth. Sand.

Unsuitable Extinguishing Media: Do not use water when molten material is involved, contact of hot product with water will result in a violent expansion as the water turns to steam causing explosion with massive force. A heavy water stream may spread burning liquid.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor.

Explosion Hazard: May form flammable or explosive vapor-air mixture. Contains a small amount of hydrogen sulfide. Hydrogen sulfide is a fatal and highly flammable gas with a rotten egg odor that quickly causes odor fatigue. Heating of this product and storage under elevated temperatures or over long periods of time may release higher amounts of hydrogen sulfide. Hydrogen sulfide is also an asphyxiant.

Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions closed containers may rupture or explode.

Firefighting Instructions: In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Remove containers from fire area if this can be done without risk. Do not get water inside containers. Do not apply water stream directly at source of leak. Do not breathe fumes from fires or vapors from decomposition.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Eliminate ignition sources. Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Use only non-sparking tools. Contact competent authorities after a spill. Allow liquid material to solidify before cleaning up. If spilled directly onto the ground, remove sufficient soil to ensure material is fully recovered.

6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable. Contains a small amount of hydrogen sulfide. Hydrogen sulfide is a fatal and highly flammable gas with a rotten egg odor that quickly causes odor fatigue. Heating of this product and storage under elevated temperatures or over long periods of time may release higher amounts of hydrogen sulfide. Hydrogen sulfide is also an asphyxiant.

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe mist, spray, and vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take precautionary measures against static discharge. Use only non-sparking tools.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Keep container tightly closed. Keep in fireproof place.

Incompatible Products: Strong acids, strong bases, strong oxidizers. Chlorates. Reducing agents.

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7.3. Specific End Use(s)

Cold Patch

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Asphalt (8052-42-4)		
USA ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³ (fume, inhalable fraction)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen fume, coal tar-free
USA ACGIH	Biological Exposure Indices (BEI)	(Medium: urine - Time: end of shift at end of workweek - Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	5 mg/m³ (fume)

Fuels, diesel, no. 2 (68476-34-6)		
USA ACGIH	ACGIH TWA (mg/m³)	100 mg/m³ (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route,Confirmed Animal Carcinogen with Unknown Relevance to Humans

Naphthalene (91-20-3)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route,Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA ACGIH	Biological Exposure Indices (BEI)	(Time: end of shift - Parameter: 1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis (nonquantitative, nonspecific)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	50 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	10 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m³)	75 mg/m³
USA NIOSH	NIOSH REL (STEL) (ppm)	15 ppm
USA IDLH	US IDLH (ppm)	250 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Storage and handling temperatures should be kept as low as feasible to minimize fume production. Do not enter empty storage tanks until measurements of hydrogen sulfide concentration and available oxygen have been carried out. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

Hand Protection: Wear protective gloves. If material is hot, wear thermally resistant protective gloves.

Eye Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Thermal Hazard Protection: When working with hot material, use suitable thermally protective clothing.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State: Liquid Appearance: Black Odor: Asphalt Odor Threshold: No data available pH: No data available Evaporation Rate: No data available Melting Point: No data available Freezing Point: No data available Boiling Point: No data available Flash Point: 230.0 °F (110.0 °C) Auto-ignition Temperature: No data available Decomposition Temperature: No data available Flammability (solid, gas): No data available Vapor Pressure: No data available Relative Vapor Density at 20 °C: No data available Relative Density: No data available Specific Gravity: 0.9 - 1.1

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Specific gravity / Density: 7.6 - 8.3 lb/gal

Solubility: No data available

Partition Coefficient: N-Octanol/Water: No data available

Viscosity: 250 - 1000 CST

Explosive Properties: Product is not explosive, however, formation of explosive air-vapor mixture is possible.

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reacts violently with strong oxidizers. Increased risk of fire or explosion.

10.2. Chemical Stability

Flammable liquid and vapor. May form flammable or explosive vapor-air mixture.

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers. Chlorates. Reducing agents.

10.6. Hazardous Decomposition Products

Carbon oxides (CO, CO₂). Hydrocarbons. Nitrogen oxides. Sulfur oxides. Hydrogen sulfide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

Asphalt (8052-42-4)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 94.4 mg/m³

Fuels, diesel, no. 2 (68476-34-6)	
LD50 Oral Rat	18.7 – 24.9 ml/kg
LD50 Dermal Rabbit	> 4300 mg/kg
LC50 Inhalation Rat	3.6 mg/l/4h

Naphthalene (91-20-3)	
LD50 Oral Rat	533 - 710 mg/kg
LC50 Inhalation Rat	> 340 mg/m³ (Exposure time: 1 h)
Chip Correction /Irritation	

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Suspected of causing cancer.

Asphalt (8052-42-4)	
IARC group	2B
National Toxicology Program (NTP) Status	Twelfth Report - Items under consideration.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Naphthalene (91-20-3)	
IARC group	2B
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity, Reasonably anticipated to be Human Carcinogen.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure(thymus, liver, bone marrow).

Aspiration Hazard: May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation. WARNING: irritating and toxic hydrogen sulfide gas may be present. Greater than 15-20ppm continuous exposure can cause mucous membrane and respiratory tract irritation. 50-500 ppm can cause headache, nausea, and dizziness. Continued exposure at these levels can lead to loss of reasoning and balance, difficulty in breathing, fluid in the lungs, and possible loss of consciousness. Greater than 500ppm can cause rapid unconsciousness and death if not promptly revived.

Symptoms/Injuries After Skin Contact: Causes skin irritation. Redness, pain, swelling, itching, burning, dryness, and dermatitis. Risk of thermal burns on contact with molten product.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation. Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure (thymus, liver, bone marrow).

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Fuels, diesel, no. 2 (68476-3	34-6)
LC50 Fish 1	57 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
Naphthalopo $(91-20-3)$	

Naphthalene (91-20-3)	
LC50 Fish 1	5.74 - 6.44 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow- through])
EC50 Daphnia 1	2.16 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 2	1.96 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])

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12.2. Persistence and Degradability

MC-250 + additive; MC-450 + additive; Jasa HP-5; Jasa HP-10	
Persistence and Degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential

MC-250 + additive; MC-450 + additive; Ja	sa HP-5; Jasa HP-10
Bioaccumulative Potential	Not established.

Asphalt (8052-42-4)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	> 6

Naphthalene (91-20-3)	
BCF fish 1	30 - 430
Log Pow	3.3 (at 20 °C)

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology – Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT

Proper Shipping Name: TARS, LIQUID including road oils and cutback bitumens

Hazard Class: 3

Identification Number: UN1999

Label Codes: 3

Packing Group: III

Marine Pollutant: Marine pollutant ERG Number: 130

14.2. In Accordance with IMDG

Proper Shipping Name: TARS, LIQUID including road oils and cutback bitumens Hazard Class: 3 Identification Number: UN1999 Packing Group: III Label Codes: 3 EmS-No. (Fire): F-E



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EmS-No. (Spillage): S-E Marine Pollutant: Marine pollutant

14.3. In Accordance with IATA

Proper Shipping Name: TARS, LIQUID including road oils and cutback bitumens Packing Group: III Identification Number: UN1999 Hazard Class: 3 Label Codes: 3 ERG Code (IATA): 3L

SECTION 15: REGULATORY INFORMATION

15.1 **US Federal Regulations**

MC-250 + additive; MC-450 + additive; Jasa HP-5; Jasa HP-10

SARA Section 311/312 Hazard Classes

Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

Asphalt (8052-42-4)

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

SARA Section 311/312 Hazard Classes

Delayed (chronic) health hazard

Fuels, diesel, no. 2 (68476-34-6)

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

Naphthalene (91-20-3)	
sted on the United States TSCA (Toxic Substances Control Act) inventory Ibject to reporting requirements of United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
SARA Section 313 - Emission Reporting	0.1 %

15.2 **US State Regulations**

Naphthalene (91-20-3)	
	WARNING: This product contains chemicals known to

Asphalt (8052-42-4)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Naphthalene (91-20-3)

U.S. - Massachusetts - Right To Know List

- U.S. New Jersey Right to Know Hazardous Substance List U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date: 10/29/2015

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Acute Tox. 4 (Inhalation:dust,mist)Acute toxicity (inhalation:dust,mist) Category 4Acute Tox. 4 (Oral)Acute toxicity (oral) Category 4Aquatic Acute 1Hazardous to the aquatic environment - Acute Hazard Category 1Aquatic Acute 3Hazardous to the aquatic environment - Acute Hazard Category 3Aquatic Chronic 1Hazardous to the aquatic environment - Chronic Hazard Category 1Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Asp. Tox. 1Aspiration hazard Category 1Carc. 2Carcinogenicity Category 2Comb. DustCombustible DustEye Dam. 1Serious eye damage/eye irritation Category 1Eye Irrit. 2ASerious eye damage/eye irritation Category 2AFlam. Liq. 3Flammable liquids Category 2Skin corr. 1BSkin corrosion/irritation Category 1BSkin corr. 1BSkin corrosion/irritation Category 2Stor RE 2Specific target organ toxicity (repeated exposure) Category 2H226Flammable liquid and vaporH228Flammable solidH304May form combustible dust concentrations in airH302Harmful if swallowed and enters ainwaysH315Causes serious eye damageH318Causes serious eye damageH319Causes serious eye irritationH322Harmful if inhaledH333May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effects	GHS Full Text Phrases	
Aquatic Acute 1Hazardous to the aquatic environment - Acute Hazard Category 1Aquatic Acute 3Hazardous to the aquatic environment - Acute Hazard Category 3Aquatic Chronic 1Hazardous to the aquatic environment - Chronic Hazard Category 1Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Asp. Tox. 1Aspiration hazard Category 1Carc. 2Carcinogenicity Category 2Comb. DustCombustible DustEye Dam. 1Serious eye damage/eye irritation Category 1Eye Irrit. 2ASerious eye damage/eye irritation Category 2AFlam. Liq. 3Flammable liquids Category 3Flam. Sol. 2Flammable solids Category 2Skin corr. 1BSkin corrosion/irritation Category 1Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2H228Flammable liquid and vaporH228Flammable solidH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH315Causes serious eye damageH318Causes serious eye damageH319Causes serious eye damageH319Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH400Very toxic to aquatic life		Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 3Hazardous to the aquatic environment - Acute Hazard Category 3Aquatic Chronic 1Hazardous to the aquatic environment - Chronic Hazard Category 1Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Asp. Tox. 1Aspiration hazard Category 1Carc. 2Carcinogenicity Category 2Comb. DustCombustible DustEye Dam. 1Serious eye damage/eye irritation Category 1Eye Irrit. 2ASerious eye damage/eye irritation Category 2AFlam. Liq. 3Flammable liquids Category 3Flam. Sol. 2Flammable solids Category 2Skin Corr. 1BSkin corrosion/irritation Category 1Skin Irrit. 2Specific target organ toxicity (repeated exposure) Category 2H226Flammable solidH228Flammable solidH232May form combustible dust concentrations in airH302Harrful if swallowedH314Causes series with uurns and eye damageH315Causes serious eye damageH316Causes serious eye damageH317May couse damage to organs through prolonged or repeated exposureH318Causes damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH400Very toxic to aquatic lifeH400Very toxic to aquatic life	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 1Hazardous to the aquatic environment - Chronic Hazard Category 1Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Asp. Tox. 1Aspiration hazard Category 1Carc. 2Carcinogenicity Category 2Comb. DustCombustible DustEye Dam. 1Serious eye damage/eye irritation Category 1Eye Jirit. 2ASerious eye damage/eye irritation Category 2AFlam. Lig. 3Flammable liquids Category 2Skin Corr. 1BSkin corrosion/irritation Category 1BSkin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2H228Flammable solidH232May form combustible dust concentrations in airH302Harmful if swallowedH314Causes serious eye damageH315Causes serious eye damageH316Causes serious eye damageH317May cause demageH318Causes serious eye irritationH322Harmful if inhaledH332Harmful if inhaledH340Very toxic to aquatic lifeH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effects	Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Asp. Tox. 1Aspiration hazard Category 1Carc. 2Carcinogenicity Category 2Comb. DustCombustible DustEye Dam. 1Serious eye damage/eye irritation Category 1Eye Irrit. 2ASerious eye damage/eye irritation Category 2AFlam. Liq. 3Flarmable liquids Category 3Flam. Sol. 2Flarmable solids Category 2Skin corr. IBSkin corrosion/irritation Category 1BSkin irrit. 2Specific target organ toxicity (repeated exposure) Category 2H226Flarmable solidH228Flarmable solidH302Harmful if swallowedH304May be fatal if swallowedH314Causes serious eye damageH318Causes serious eye irritationH318Causes serious eye irritationH319Causes serious eye irritationH314Causes serious eye irritationH315Suppected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effects	Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Asp. Tox. 1Aspiration hazard Category 1Carc. 2Carcinogenicity Category 2Comb. DustCombustible DustEye Dam. 1Serious eye damage/eye irritation Category 1Eye Irrit. 2ASerious eye damage/eye irritation Category 2AFlam. Lig. 3Flammable liquids Category 3Flam. Sol. 2Flammable solids Category 2Skin Corr. IBSkin corrosion/irritation Category 1BSkin rit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2H226Flammable solidH232May form combustible dust concentrations in airH302Harmful if swallowedH314Causes severe skin burns and eye damageH315Causes serious eye damageH318Causes serious eye damageH319Causes serious eye irritationH322Harmful if inhaledH332Harmful if nhaledH314Causes damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effects	Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Carc. 2Carcinogenicity Category 2Comb. DustCombustible DustEye Dam. 1Serious eye damage/eye irritation Category 1Eye Irrit. 2ASerious eye damage/eye irritation Category 2AFlam. Liq. 3Flammable liquids Category 3Flam. Sol. 2Flammable solids Category 2Skin Corr. IBSkin corrosion/irritation Category 1BSkin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2H226Flammable solidH228Flammable solidH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH314Causes serious eye damageH319Causes serious eye damageH319Causes serious eye irritationH332Harmful if inhaledH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effects	Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Comb. DustCombustible DustEye Dam. 1Serious eye damage/eye irritation Category 1Eye Irrit. 2ASerious eye damage/eye irritation Category 2AFlam. Liq. 3Flammable liquids Category 3Flam. Sol. 2Flammable solids Category 2Skin Corr. IBSkin corrosion/irritation Category 1BSkin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2H226Flammable solidH228Flammable solidH228Flammable solidH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH314Causes severe skin burns and eye damageH318Causes serious eye irritationH332Harmful if inhaledH319Causes damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effects	Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1Serious eye damage/eye irritation Category 1Eye Irrit. 2ASerious eye damage/eye irritation Category 2AFlam. Liq. 3Flammable liquids Category 3Flam. Sol. 2Flammable solids Category 2Skin Corr. IBSkin corrosion/irritation Category IBSkin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2H226Flammable liquid and vaporH228Flammable solidH302Harmful if swallowedH304May form combustible dust concentrations in airH314Causes severe skin burns and eye damageH315Causes serious eye damageH318Causes serious eye damageH319Causes serious eye damageH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effects	Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2ASerious eye damage/eye irritation Category 2AFlam. Liq. 3Flammable liquids Category 3Flam. Sol. 2Flammable solids Category 2Skin Corr. IBSkin corrosion/irritation Category 1BSkin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2H226Flammable solidH228Flammable solidH302Harmful if swallowedH304May form combustible dust concentrations in airH304May be fatal if swallowed and enters airwaysH315Causes severe skin burns and eye damageH318Causes serious eye damageH319Causes serious eye damageH319Causes serious eye damageH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effects	Comb. Dust	Combustible Dust
Flam. Liq. 3Flammable liquids Category 3Flam. Sol. 2Flammable solids Category 2Skin Corr. IBSkin corrosion/irritation Category 1BSkin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2H226Flammable liquid and vaporH228Flammable solidH322May form combustible dust concentrations in airH302Harmful if swallowedH314Causes severe skin burns and eye damageH318Causes serious eye damageH319Causes serious eye irritationH322Harmful if inhaledH332Harmful if inhaledH344Cause serious eye irritationH315Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effects	Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Sol. 2Flammable solids Category 2Skin Corr. IBSkin corrosion/irritation Category IBSkin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2H226Flammable liquid and vaporH228Flammable solidH322May form combustible dust concentrations in airH302Harmful if swallowedH314Causes severe skin burns and eye damageH315Causes serious eye damageH319Causes serious eye irritationH322Harmful if inhaledH332Harmful if organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH402Harmful to aquatic life with long lasting effects	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Corr. IBSkin corrosion/irritation Category IBSkin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2H226Flammable liquid and vaporH228Flammable solidH232May form combustible dust concentrations in airH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH315Causes severe skin burns and eye damageH318Causes serious eye damageH319Causes serious eye irritationH321Harmful if inhaledH322Harmful if inhaledH314Suspected of causing cancerH315Use damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH402Harmful to aquatic life with long lasting effects	Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2H226Flammable liquid and vaporH228Flammable solidH232May form combustible dust concentrations in airH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH314Causes severe skin burns and eye damageH315Causes serious eye damageH319Causes serious eye irritationH322Harmful if inhaledH332Harmful if inhaledH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effects	Flam. Sol. 2	Flammable solids Category 2
STOT RE 2Specific target organ toxicity (repeated exposure) Category 2H226Flammable liquid and vaporH228Flammable solidH232May form combustible dust concentrations in airH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH314Causes severe skin burns and eye damageH315Causes serious eye damageH319Causes serious eye damageH321Harmful if inhaledH322Harmful if inhaledH314Causes damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH400Very toxic to aquatic life with long lasting effects	Skin Corr. 1B	Skin corrosion/irritation Category 1B
H226Flammable liquid and vaporH228Flammable solidH232May form combustible dust concentrations in airH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH314Causes severe skin burns and eye damageH315Causes skin irritationH318Causes serious eye damageH319Causes serious eye irritationH321Harmful if inhaledH351Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effects	Skin Irrit. 2	Skin corrosion/irritation Category 2
H228Flammable solidH232May form combustible dust concentrations in airH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH314Causes severe skin burns and eye damageH315Causes skin irritationH318Causes serious eye damageH319Causes serious eye irritationH321Burget eye irritationH332Harmful if inhaledH351Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH402Harmful to aquatic life with long lasting effects	STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H232May form combustible dust concentrations in airH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH314Causes severe skin burns and eye damageH315Causes skin irritationH318Causes serious eye damageH319Causes serious eye irritationH322Harmful if inhaledH331Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effects	H226	Flammable liquid and vapor
H302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH314Causes severe skin burns and eye damageH315Causes skin irritationH318Causes serious eye damageH319Causes serious eye irritationH322Harmful if inhaledH351Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH402Harmful to aquatic life with long lasting effects	H228	Flammable solid
H304May be fatal if swallowed and enters airwaysH314Causes severe skin burns and eye damageH315Causes skin irritationH318Causes serious eye damageH319Causes serious eye irritationH332Harmful if inhaledH351Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH402Harmful to aquatic life with long lasting effects	H232	May form combustible dust concentrations in air
H314Causes severe skin burns and eye damageH315Causes skin irritationH318Causes serious eye damageH319Causes serious eye irritationH322Harmful if inhaledH351Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH402Harmful to aquatic life with long lasting effects	H302	Harmful if swallowed
H315Causes skin irritationH318Causes serious eye damageH319Causes serious eye irritationH322Harmful if inhaledH351Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH402Harmful to aquatic life with long lasting effects	H304	May be fatal if swallowed and enters airways
H318Causes serious eye damageH319Causes serious eye irritationH332Harmful if inhaledH351Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH402Harmful to aquatic lifeH410Very toxic to aquatic life with long lasting effects	H314	Causes severe skin burns and eye damage
H319Causes serious eye irritationH332Harmful if inhaledH351Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH402Harmful to aquatic lifeH410Very toxic to aquatic life with long lasting effects	H315	Causes skin irritation
H332Harmful if inhaledH351Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH402Harmful to aquatic lifeH410Very toxic to aquatic life with long lasting effects	H318	Causes serious eye damage
H351Suspected of causing cancerH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH402Harmful to aquatic lifeH410Very toxic to aquatic life with long lasting effects	H319	Causes serious eye irritation
H373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH402Harmful to aquatic lifeH410Very toxic to aquatic life with long lasting effects	H332	Harmful if inhaled
H400Very toxic to aquatic lifeH402Harmful to aquatic lifeH410Very toxic to aquatic life with long lasting effects	H351	Suspected of causing cancer
H402 Harmful to aquatic life H410 Very toxic to aquatic life with long lasting effects	H373	May cause damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects	H400	Very toxic to aquatic life
	H402	Harmful to aquatic life
H411 Toxic to aquatic life with long lasting effects	H410	Very toxic to aquatic life with long lasting effects
	H411	Toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)