

Section 4. First Aid Measures

Description of necessary first aid measures.

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if symptoms occur.

Inhalation

Because of the nature of this product, inhalation is not a route of exposure.

Skin contact

Material is in a solid form. If skin contact, wash area with soap and water. Get medical attention if skin irritation occurs.

Ingestion

Ingestion is not a route of exposure.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

No known significant effects or critical hazards

Inhalation

No known significant effects or critical hazards

Skin contact

No known significant effects or critical hazards

Ingestion

No known significant effects or critical hazards

Over-exposure signs/symptoms

Eye contact

No known significant effects or critical hazards

Inhalation

No known significant effects or critical hazards

Skin contact

No known significant effects or critical hazards

Ingestion

No known significant effects or critical hazards

Indication of immediate medical attention and special treatment needed, if necessary.

Notes to physician:

Treat symptomatically.

Specific treatments

No specific treatment

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

None known

Specific hazards arising from the chemical

No specific fire or explosion hazard.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

Carbon Dioxide

Carbon Monoxide

Sulfur oxides

Low MW hydrocarbons

Special protective equipment

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in a positive pressure mode.

Special protective actions for fire fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risks or without suitable training.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures.

For non emergency personal

Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel."

Environmental precautions

Material will not spill.

Methods and materials for containment and cleaning up

Spill

Due to the physical state of this material, spills are not possible.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry cool and well-ventilated area away from incompatible materials (see section 10) and food and drink.

Section 8. Exposure Controls/Personal Protection

Occupational exposure limits

Ingredient name	Exposure limits
Asphalt	NIOSH REL (United States, 10/2016) CEIL: 5 mg/m ³ 15 minutes. Form: fume
Distillates(petroleum), petroleum residues vacuum	ACGIH TLV (United States, 3/2019) TWA: 0.5 mg/m ³ , (as benzene soluble aerosol) 8 hours. Form: inhalable fraction.
Hydrogen Sulfide	None
Limestone	ACGIH TLV (United States, 3/2018) TWA: 1 ppm 8 hours STEL: 5 ppm 15 minutes OSHA PEL Z2 (United States, 2/2013) CEIL:20 ppm AMP: 50 ppm 10 minutes. NIOSH REL (United States, 10/2016) CEIL: 15 mg/m ³ 10 minutes.
Crystalline Silica, quartz (inpurity)	NIOSH REL (United States, 10/2016) TWA: 10 mg/m ³ (total) TWA 5 mg/m ³ (respirable) OSHA PEL (United States, 2/2013) TWA: 15 mg/m ³ (total) TWA 5 mg/m ³ (respirable) NIOSH REL (United States, 10/2016) Ca TWA: 0.05 mg/m ³

Section 8. Exposure Controls/Personal Protection

Appropriate engineering controls	No special ventilation requirements. Good ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Hygiene measure	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases and dusts.
<u>Skin Protection</u>	
Hand protection	Chemical- resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training , and other important aspects of use.

Section 9. Physical and Chemical Properties

<u>Appearance</u>	
Physical state	Solid
Color	Black
Odor	Asphaltic(slight)
Odor threshold	Not available
pH	Not applicable
Melting point	Not available
Boiling point	Not applicable
Flash Point	Not determined
Evaporation rate:	Not applicable
Flammability (solid, gas)	Not applicable
Lower & upper explosive (flammable) limits	Not applicable
Vapor density	Not applicable
Vapor pressure	Not applicable
Relative density	1.09
Solubility	Insoluble in water
Partition coefficient: n- octanol/water	Not available
Auto- ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not applicable
VOC	0 g/l

Section 10. Stability and Reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	This product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reaction will not occur.
Conditions to avoid:	No specific data.
Incompatible materials	Reactive or incompatible with the following materials: Oxidizing materials
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Asphalt	LD50 Oral	Rat	>5000 mg/kg	-
Hydrogen Sulfide	LC50 Inhalation Gas	Rat	444 ppm	4 hours
	LC50 Inhalation Vapor	Rat	700 mg/m ³	4 hours
Limestone	LD50 Oral	Rat	6450 mg/kg	-
Crystalline Silica, quartz (inpurity)	LD50 Oral	Rat Mouse	500 mg/kg	-

Irritation/Corrosion

There is no data available

Sensitization

There is no data available

Mutagenicity

There is no data available

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Asphalt	-	2B	-
Crystalline Silica, quartz (inpurity)	-	1	-

Reproductive toxicity

There is no data available

Teratogenicity

There is no data available

Specific target organ toxicity (single exposure)

There is no data available

Specific target organ toxicity (repeated exposure)

There is no data available

Aspiration hazard

There is no data available

Information on the likely routes of exposure

Routes of entry anticipated: dermal contact

Routes of entry not anticipated: Oral, inhalation, ingestion

Potential acute health effects

Eye contact

No known significant effects or critical hazards

Inhalation

No known significant effects or critical hazards

Skin contact

No known significant effects or critical hazards

Ingestion

No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

No known significant effects or critical hazards

Inhalation

No known significant effects or critical hazards

Skin contact

No known significant effects or critical hazards

Ingestion

No known significant effects or critical hazards

Section 11. Toxicological Information

Delayed and immediate effects and chronic effects from short and long term exposure

Short term exposure

Potential immediate effects

No known significant effects or critical hazards

Potential delayed effects

No known significant effects or critical hazards

Long term exposure

Potential immediate effects

No known significant effects or critical hazards

Potential delayed effects

No known significant effects or critical hazards

Potential chronic health effects

General

No known significant effects or critical hazards

Carcinogenicity

No known significant effects or critical hazards

Mutagenicity

No known significant effects or critical hazards

Teratogenicity

No known significant effects or critical hazards

Developmental effects

No known significant effects or critical hazards

Fertility effects

No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates

There is no data available

Section 12. Ecological Information

Toxicity

Product/ingredient name	Result	Species	Exposure
Hydrogen Sulfide	Acute EC50 62 µg/L Fresh water	Crustaceans-Gammarus pseudolimnaeus	2 days
	Acute LC50 2 µg/L Fresh water	Fish- Coregonus clupeaformis- Yolk Sac fry	96 hours

Persistence and degradability

There is no data available

Bioaccumulative potential

There is no data available

Mobility in soil

Soil/water partition coefficient (K_{oc})

There is no data available.

Other adverse effects

No known significant effects or critical hazards

Section 13. Disposal Considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Section 14. Transportation Information

AERG: Not applicable

Regulatory

Information:

DOT/TDG/IMDG/IATA Not regulated

Section 15. Regulatory Information

U.S. Federal regulations:	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Air Act Section 112 (b) Hazardous air pollutants (HAPs)	United States inventory (TSCA 8 b): all components are listed or exempted Not listed
Clean Air Act (CAA) Section 602 Class I Substances	Not listed
Clean Air Act (CAA) Section 602 Class II Substances	Not listed
DEA List I Chemicals (Precursor chemicals)	Not listed
DEA List II Chemicals (Essential Chemicals)	Not listed
SARA 302/304	
<u>Composition/information on ingredients</u>	
SARA 304 RQ	Not applicable
SARA 311/312	Not applicable
SARA 313	Not applicable
<u>State regulations</u>	
Massachusetts	The following components are listed: Petroleum asphalt
New Jersey	The following components are listed: Petroleum asphalt
New York	None of the components are listed
Pennsylvania	The following components are listed: Petroleum asphalt
<u>California Prop.65</u>	None of the components are listed on the Prob 65 list dated 1-3-2020.

16. Other Information

Date of revision:	5-4-2020
Date of previous issue	12-8-2014
Revisions:	Change Mfg. Address to 4101 S. I-45. Change phone number to 214-515-5000 from 800 number. Update product composition
Version	4
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