

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."

Enviromental 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 ACGIH TLV (United States, 3/2019) TWA: 0.5 mg/m ³ , (as benzene soluble aerosol) 8 hours. Form: inhalable fraction. None |
| Distillates(petroleum), petroleum residues vaccum | |
| Hydrogen Sulfide | 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. |
| Limestone | 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) |
| Crystalline Silica, quartz (inpurity) | NIOSH REL (United States, 10/2016) Ca TWA: 0.05 mg/m ³ |

Section 8. Exposure Controls/Personal Protection

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|---|---|
| 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. |
| Skin Protection | |
| 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

| | |
|---|------------------------|
| Appearance | |
| Physical state | Solid |
| Color | Black or white backing |
| 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

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|--|--|
| 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: | 4-3-2020 |
| Date of previous issue | 12-10-2014 |
| Revisions: | Update product description. Change company address Change company phone number. Update product composition |

Version
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