



Safety Data Sheet

Date Issued : 9/

1 - IDENTIFICATION

This safety data sheet complies with the requirements of: GB/T 17519-2013

Recommended use of the chemical and restrictions on use

Recommended Use An asphalt sealer that protects asphalt surfaces, fills in hairline cracks, and provides increased traction.
Uses advised against DO NOT FREEZE.

Classification

OSHA Regulatory Status

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

Label elements

Emergency Overview

No Signal Word

Appearance Brown viscous liquid

Physical state Liquid

Odor Mild

Precautionary Statements - Disposal

Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

Hazards not otherwise classified (HNOC)

2 - HAZARDS IDENTIFICATION (CONTINUED)

Not applicable

Other Information

• May be harmful in contact with skin
Unknown acute toxicity

No information available

3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Common name Asphalt Emulsion.

| Chemical Name | CAS No. | Weight-% | Trade Secret |
|----------------------------------|-----------|----------|--------------|
| Water | 7732-18-5 | 40 - 50% | * |
| Asphalt (at Ambient Temperature) | 8052-42-4 | 40 - 50% | * |
| Bentonite | 1302-78-9 | 0 - 10% | * |

34 - FIRST AID MEASURES

Description of first aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Not applicable.

Ingestion Clean mouth with water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

35 - FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

36 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up the absorbed material (described just above) and transfer to properly labeled containers for disposal according to local / national regulations (see Section 13).

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep from freezing.

Incompatible materials None known based on information supplied.

Control parameters

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|--|----------|--|
| Asphalt (at Ambient Temperature) 8052-42-4 | TWA: 0.5 mg/m ³ benzene soluble aerosol fume, inhalable fraction | - | Ceiling: 5 mg/m ³ fume 15 min |
| Bentonite 1302-78-9 | TWA: 1 mg/m ³ respirable fraction | - | - |
| Fiber Glass 65997-17-3 | TWA: 1 fiber/cm ³ respirable fibers: length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination TWA: 5 mg/m ³ inhalable fraction | - | - |

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing that is resistant to chemical penetration.

Respiratory protection Provide adequate ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

Information on basic physical and chemical properties

| | | | |
|-----------------------|----------------------|-----------------------|--------------------------|
| Physical state | Liquid | Odor | Mild |
| Appearance | Brown viscous liquid | Odor threshold | No information available |
| Color | dark brown | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--------------------------------------|--------------------------|--------------------------------|
| pH | Not Applicable | Not applicable |
| Melting point/freezing point | No information available | No data available. |
| Boiling point / boiling range | No information available | |
| Flash point | Not Applicable | |
| Evaporation rate | No information available | |
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | | Not applicable |
| Upper flammability limit: | Not Applicable | |
| Lower flammability limit: | Not Applicable | |
| Vapor pressure | No information available | |
| Vapor density | No information available | |
| Specific Gravity | 1.04 g/cm3 | |
| Water solubility | No information available | |
| Solubility in other solvents | No information available | |
| Partition coefficient | No information available | |
| Autoignition temperature | No information available | |
| Decomposition temperature | No information available | |
| Kinematic viscosity | No information available | |
| Dynamic viscosity | No information available | |
| Explosive properties | No information available | |
| Oxidizing properties | No information available | |

Other Information

| | |
|-------------------------|--------------------------|
| Softening point | No information available |
| Molecular weight | No information available |
| VOC Content (%) | No data available. |
| Density | 8.67 lbs/gal |
| Bulk density | No information available |

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|----------------------------|--------------------|
| Product Information | No data available. |
| Inhalation | No data available. |
| Eye contact | No data available. |
| Skin contact | No data available. |
| Ingestion | No data available. |

Component Information

* The IARC Monograph (Vol. 103, 2013, Bitumen and Bitumen Emissions) defines Asphalt as 'Group 2B, Possible Carcinogen to Humans'. This definition is based on studies of exposure to Asphalt fumes at elevated temperatures. The Monograph states that temperature plays an important role in determining the degree of exposure and also the carcinogenic potential of bitumen emissions. This same Monograph states that Asphalt is non-volatile at ambient temperature. There is no data presented in the Monograph to demonstrate that Asphalt at ambient temperature is considered a carcinogen. Since the normal use of this product is at ambient temperature, the Asphalt used in this product is not listed as a carcinogen. No other national or international agency has defined Asphalt as a carcinogen.

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|----------------------|-------------------------|-----------------|
| Asphalt (at Ambient Temperature) 8052-42-4 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | - |
| Bentonite 1302-78-9 | > 5000 mg/kg (Rat) | - | - |

Information on toxicological effects

Symptoms No information available.

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

| | |
|---------------------------------|--|
| Sensitization | No information available. |
| Germ cell mutagenicity | This product does not contain any ingredients that cause germ cell mutagenicity. |
| Carcinogenicity | The table below indicates whether each agency (ACGIH, IARC, NTP, or OSHA) has listed any ingredient as a carcinogen. |
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration hazard | No information available. |

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document For exterior use only. Do not use indoors.

| | |
|------------------------|-----------|
| ATEmix (oral) | 10,030.00 |
| ATEmix (dermal) | 4,362.00 |

12 - ECOLOGICAL INFORMATION

Ecotoxicity

46.53% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|------------------------|----------------------|--|-----------|
| Bentonite 1302-78-9 | - | 19000: 96 h Oncorhynchus mykiss mg/L LC50 static 8.0 - 19.0: 96 h Salmo gairdneri g/L LC50 | - |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

| Chemical Name | Partition coefficient |
|---|------------------------------|
| Asphalt (at Ambient Temperature) 8052-42-4 | 6 |

Other adverse effects

No information available

| |
|---|
| 1 |
|---|

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

Contaminated packaging

Do not reuse container.

DOT

Not regulated.

TDG

Not regulated.

MEX

Not regulated.

ICAO (air)

Not regulated.

IATA

Not regulated.

IMDG

Not regulated.

RID

Not regulated.

ADR

Not regulated.

ADN

Not regulated.

International Inventories

Legend:

15 - REGULATORY INFORMATION (CONTINUED)

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|----|
| Acute health hazard | No |
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

This product contains the following substances regulated by various State Right-to-Know regulations.

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Asphalt (at Ambient Temperature) 8052-42-4 | X | X | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16 - OTHER INFORMATION

| | | | | |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 1 | Flammability 0 | Instability 0 | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 1 | Flammability 0 | Physical hazards 0 | Personal protection X |

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be 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.

End of Safety Data Sheet