

Safety Data Sheet

Firestone Building Products Company

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • Ply IV, Ply VI

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Construction

1.3 Details of the supplier of the safety data sheet

Manufacturer • Firestone Building Products Company
200 4th Avenue S
Nashville, TN 37201-2208
United States

firestonemsds@bfdp.com

Telephone (General) • 800-428-4442

1.4 Emergency telephone number

Manufacturer • (800) 424-9300 - CHEMTREC

Manufacturer • (703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

2.1 Classification of the substance or mixture

CLP • Skin Irritation 2 - H315
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
Carcinogenicity 1B - H350

2.2 Label Elements

CLP

DANGER

Hazard statements • H315 - Causes skin irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H350 - May cause cancer.

Precautionary statements

Prevention • P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash thoroughly after handling.
P261 - Avoid breathing dust..

P271 - Use only outdoors or in a well-ventilated area.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P281 - Use personal protective equipment as required.

- Response** • P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 P321 - Specific treatment, see supplemental first aid information.
 P362 - Take off contaminated clothing and wash before reuse.
 P332+P313 - If skin irritation occurs: Get medical advice/attention.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.

- Storage/Disposal** • P403 - Store in a well-ventilated place.
 P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

- CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012** • Skin Irritation 2
 Eye Mild Irritation 2B
 Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
 Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
 Carcinogenicity 1B

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • Causes skin irritation
 Causes eye irritation
 May cause respiratory irritation
 May cause drowsiness or dizziness
 May cause cancer.

Precautionary statements

- Prevention** • Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Avoid breathing dust.
 Wash thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Call a POISON CENTER or doctor/physician if you feel unwell.
 If on skin: Wash with plenty of water.
 Specific treatment, see supplemental first aid information.
 Take off contaminated clothing and wash before reuse.
 If skin irritation occurs: Get medical advice/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 advice/attention.
 IF exposed or concerned: Get medical advice/attention.

- Storage/Disposal** • Store in a well-ventilated place.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.2 Label elements

WHMIS



WHMIS

- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

| Composition | | | | | |
|-----------------------------|---------------------------------------|---------------|-----------|---|----------|
| Chemical Name | Identifiers | % | LD50/LC50 | Classifications According to Regulation/Directive | Comments |
| Petroleum asphalt, oxidized | CAS:64742-93-4 EINECS:265-196-4 | 75% TO 80% | NDA | EU CLP: Carc. 1B, H350 OSHA HCS 2012: Carc. 1B | NDA |
| Glass, oxide, chemicals | CAS:65997-17-3 EC Number:266-046-0 | 20% TO 25% | NDA | EU CLP: Not Classified OSHA HCS 2012: Not Classified | NDA |

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If signs/symptoms continue, get medical attention.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. If irritation develops and persists, get medical attention.

- Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- Rinse mouth. Do not give anything by mouth to an unconscious person. Obtain medical attention immediately if ingested.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

- Suitable Extinguishing Media**
- Use dry chemical, foam and carbon dioxide.

- Unsuitable Extinguishing Media**
- No data available.

5.2 Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Burning of this product will produce thick black smoke.

- Hazardous Combustion Products**
- Primary combustion products are carbon monoxide, carbon dioxide and water. Combustion products may include sulfur oxides and hydrogen sulfide. Other undetermined compounds could be released in small quantities.

5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection. Cool fire exposed containers with water.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- No special precautions expected to be necessary if material is used under ordinary conditions and as recommended.
- Emergency Procedures**
- No special emergency procedures are expected to be needed as this material is a solid sheet.

6.2 Environmental precautions

- Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- Pick up large pieces. Sweep and scoop up material and put into a suitable container for disposal.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

- Handling**
- Use only with adequate ventilation. Hydrogen sulfide may be emitted from heated asphalt. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing dust. Avoid contact with skin and eyes. Wash thoroughly with soap and

water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a well-ventilated place. Keep container tightly closed.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

| Exposure Limits/Guidelines | | | | | | |
|-------------------------------------|--------|--|---|--|---|--|
| | Result | ACGIH | Belgium | Canada Alberta | Canada British Columbia | Canada Manitoba |
| Glass, oxide, chemicals | TWAs | 1 fiber/cm ³ TWA (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, listed under Synthetic vitreous fibers) <i>as Glass wool fiber</i> | 10 mg/m ³ TWA (dust and fiber) | 1 fibre/cm ³ TWA <i>as Glass wool fiber</i> | 1 fibre/cm ³ TWA (fibres >5 µm, with an aspect ratio of >=3:1, as determined by the membrane filter method at 400-450 times magnification (4 mm objective), using phase-contrast illumination, listed under Synthetic vitreous fibres) <i>as Glass wool fiber</i> | 1 fiber/cm ³ TWA (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, respirable fibers, listed under Synthetic vitreous fibers) <i>as Glass wool fiber</i> |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Canada New Brunswick | Canada Northwest Territories | Canada Nova Scotia | Canada Nunavut | Canada Ontario |
| Glass, oxide, chemicals | TWAs | 1 fibre/cm ³ TWA (fibres >5 µm with a diameter <3 µm, aspect ratio >5:1) <i>as Glass wool fiber</i> | 3 fibre/cm ³ TWA (with a diameter <=3.5 µm and a length >=10 µm); 5 mg/m ³ TWA (total mass) <i>as Glass wool fiber</i> | 1 fiber/cm ³ TWA (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, respirable fibers, listed under Synthetic vitreous fibers) <i>as Glass wool fiber</i> | 3 fibre/cm ³ TWA (with a diameter <=3.5 µm and a length >=10 µm); 5 mg/m ³ TWA (total mass) <i>as Glass wool fiber</i> | 1 fibre/cm ³ TWA (fibres >5 µm in length and an aspect ratio >=3:1 as determined by the membrane filter method at 400-450 times magnification (4 -mm objective), using phase-contrast illumination, respirable, listed under Synthetic Vitreous Fibres (Man Made Mineral Fibres)) <i>as Glass wool fiber</i> |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Canada Quebec | Canada Saskatchewan | Canada Yukon | Denmark | NIOSH |
| | | | | | | |

| | | | | | | |
|-------------------------|------|--|---|--|---|--|
| Glass, oxide, chemicals | TWAs | 1 fibre/cm3 TWAEV (respirable, listed under Fibres - Artificial Vitreous Mineral Fibres) <i>as Glass wool fiber</i> | 1 fibre/cm3 TWA (respirable fibres, listed under Synthetic vitreous fibres) <i>as Glass wool fiber</i> | 30 mppcf TWA (dust or fibrous); 10 mg/m3 TWA (dust or fibrous) | 1 fiber/cm3 TWA <i>as Glass wool fiber</i> | 3 fiber/cm3 TWA (fibers <= 3.5 µm in diameter and >= 10 µm in length); 5 mg/m3 TWA (total) <i>as Glass wool fiber</i> |
|-------------------------|------|--|---|--|---|--|

Exposure Control Notations

ACGIH

•Glass, oxide, chemicals as Glass wool fiber: **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Synthetic vitreous fibers))

8.2 Exposure controls

Engineering Measures/Controls

- This material is designed to be used outdoors, in roofing applications. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 certified respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear safety goggles.

Skin/Body

- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

| Material Description | | | |
|-----------------------------------|--------------------------|------------------------------|---|
| Physical Form | Solid | Appearance/Description | A fibrous black membrane with a petroleum odor. |
| Color | Black | Odor | Petroleum |
| Odor Threshold | Data lacking | | |
| General Properties | | | |
| Boiling Point | > 1000 °F(> 537.7778 °C) | Melting Point/Freezing Point | Data lacking |
| Decomposition Temperature | Data lacking | pH | Data lacking |
| Specific Gravity/Relative Density | 1.08 to 1.11 Water=1 | Water Solubility | Insoluble |
| Viscosity | Data lacking | Explosive Properties | Data lacking |
| Oxidizing Properties: | Data lacking | | |
| Volatility | | | |
| Vapor Pressure | Data lacking | Vapor Density | Data lacking |
| Evaporation Rate | Data lacking | Volatiles (Wt.) | 0 % |

| | | | |
|-------------------------------------|---|--------------|-------------------------|
| Volatiles (Vol.) | 0 % | | |
| Flammability | | | |
| Flash Point | > 535 °F(> 279.4444 °C) COC (Cleveland Open Cup) | UEL | Data lacking |
| LEL | Data lacking | Autoignition | > 650 °F(> 343.3333 °C) |
| Flammability (solid, gas) | Data lacking | | |
| Environmental | | | |
| Octanol/Water Partition coefficient | Data lacking | | |

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization not indicated.

10.4 Conditions to avoid

- Incompatible materials.

10.5 Incompatible materials

- These products may react with strong oxidizing agents and water.

10.6 Hazardous decomposition products

- Primary combustion products are carbon monoxide, carbon dioxide and water. Combustion products may include sulfur oxides and hydrogen sulfide.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

| Components | | |
|---|----------------|---|
| Glass, oxide, chemicals (20% TO 25%) | 65997-17 -3 | Tumorigen / Carcinogen: Inhalation-Rat TLo • 5 mg/m ³ 7 Hour(s) 90 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Blood:Leukemia</i> |

| GHS Properties | Classification |
|--------------------------------------|---|
| Acute toxicity | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Skin corrosion/Irritation | EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2 |
| Serious eye damage/Irritation | EU/CLP • Data lacking OSHA HCS 2012 • Eye Mild Irritation 2B |
| Skin sensitization | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |

| | |
|----------------------------------|---|
| Respiratory sensitization | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Aspiration Hazard | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Carcinogenicity | EU/CLP • Carcinogenicity 1B OSHA HCS 2012 • Carcinogenicity 1B |
| Germ Cell Mutagenicity | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Toxicity for Reproduction | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| STOT-SE | EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation |
| STOT-RE | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |

Potential Health Effects

Inhalation

- Acute (Immediate)**
 - May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.
- Chronic (Delayed)**
 - No data available

Skin

- Acute (Immediate)**
 - Causes skin irritation.
- Chronic (Delayed)**
 - No data available.

Eye

- Acute (Immediate)**
 - Causes eye irritation.
- Chronic (Delayed)**
 - No data available.

Ingestion

- Acute (Immediate)**
 - Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.
- Chronic (Delayed)**
 - No data available.

Carcinogenic Effects

- Repeated and prolonged exposure may cause cancer.

Key to abbreviations

TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

| | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|-----------|----------------|------------------------------|---------------------------------|--------------------|----------------------------|
| DOT | NDA | Not Regulated | NDA | NDA | NDA |
| TDG | NDA | Not Regulated | NDA | NDA | NDA |
| IMO/IMDG | NDA | Not Regulated | NDA | NDA | NDA |
| ADN | NDA | Not Regulated | NDA | NDA | NDA |
| ADR/RID | NDA | Not Regulated | NDA | NDA | NDA |
| IATA/ICAO | NDA | Not Regulated | NDA | NDA | NDA |

14.6 Special precautions for user

- None specified.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Data lacking.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- Acute, Chronic

| State Right To Know | | | | |
|-----------------------------|------------|----|-----|----|
| Component | CAS | MA | NJ | PA |
| Glass, oxide, chemicals | 65997-17-3 | No | No | No |
| Petroleum asphalt, oxidized | 64742-93-4 | No | Yes | No |

| Inventory | | | | | | |
|-------------------------|------------|------------|-------------|-----------|-----------|------|
| Component | CAS | Canada DSL | Canada NDSL | EU EINECS | EU ELNICS | TSCA |
| Glass, oxide, chemicals | 65997-17-3 | Yes | No | Yes | No | Yes |

| | | | | | | |
|-----------------------------|------------|-----|----|-----|----|-----|
| Petroleum asphalt, oxidized | 64742-93-4 | Yes | No | Yes | No | Yes |
|-----------------------------|------------|-----|----|-----|----|-----|

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Bulgaria

Environment

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Canada

Labor

Canada - WHMIS - Classifications of Substances

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Canada - WHMIS - Ingredient Disclosure List

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Environment

Canada - CEPA - Priority Substances List

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Germany**Labor****Germany - Immission Control - Qualifying Quantities for Major Accident Prevention**

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Germany - Immission Control - Qualifying Quantities for Safety Reporting

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Germany - TRGS 505 - Specific Lead Regulations

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Environment**Germany - TA Luft - Types and Classes**

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Germany - TA Luft - Emission Limits for Carcinogenic Substances

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Germany - TA Luft - Emission Limits for Fibers

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Germany - TA Luft - Emission Limits for Inorganic Dusts

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Germany - TA Luft - Emission Limits for Inorganic Gases

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Germany - TA Luft - Emission Limits for Organic Substances

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Germany - Water Classification (VwVwS) - Annex 1

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Germany - Water Classification (VwVwS) - Annex 3

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

United States**Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

U.S. - OSHA - Specifically Regulated Chemicals

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

| | | |
|-------------------------------|------------|------------|
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
|-------------------------------|------------|------------|

| | | |
|--|------------|------------|
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |
| U.S. - California - Proposition 65 - Developmental Toxicity | | |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |
| U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL) | | |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |
| U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL) | | |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | | |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | | |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

United States - Pennsylvania

| | | |
|---|------------|------------|
| Labor | | |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List | | |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |
| U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances | | |
| • Petroleum asphalt, oxidized | 64742-93-4 | Not Listed |
| • Glass, oxide, chemicals | 65997-17-3 | Not Listed |

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

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| Revision Date | • 26/January/2018 |
| Preparation Date | • 29/October/2015 |
| Other Information | • Changes to this revision: Updated mailing address. |
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Key to abbreviations
 NDA = No data available