Material Name: Elemix® Concrete Additive, Grey, Aged

Section 1 - Product and Company Identification

Synonyms: Foamed Polystyrene
Chemical Name: Expanded Polystyrene
Chemical Family: Plastic
Material Use: Building and Construction Industry
Chemical Formula: Article

SYNTHEON Inc.
Building 25, Avenue A
Buncher Commerce Park
Leetsdale, PA 15056

EMERGENGY Telephone Numbers:
North America (Canada and US): 412-292-4076; 412-225-1110

Product Information Telephone Number: +1-412-749-0442 ext 215
Product Information Email: elemix@syntheoninc.com

Section 2 - Hazards Identification

HMIS Ratings: Health: 1* Fire: 1 Physical Hazard: 0 Personal Protection: Safety Glasses, Gloves

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Emergency Overview
Product is a solid, grey, foamed bead and may have a slightly fruity, aromatic odor. This product is not considered flammable according to OSHA, but will burn on prolonged exposure to flame or high temperature. Product may outgas residual blowing agent that can collect in confined areas and is highly flammable in the presence of open flames, lit cigarettes, sparks, static electricity discharges or heat. This product may be irritating to the eyes, skin and respiratory system. When heated to decomposition, product emits acrid smoke and irritating fumes. Slipping hazard.

Potential Health Effects: Eye
Contact with hot or molten material may cause severe thermal injury including, in extreme contact, possible blindness. Eye contact with powder or fines may cause mechanical irritation.

Potential Health Effects: Skin
Contact with hot or molten material may cause severe thermal burns. Skin contact with powder or fines may cause mild irritation that is increased by mechanical rubbing or if skin is dry. The carbon black is physically bound to the outer layers of the Elemix additive product, minimizing the potential for a reaction to the skin.

Potential Health Effects: Ingestion
Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances. Mechanical irritation and blockage of the digestive tract are possible.

Potential Health Effects: Inhalation
Inhalation of fine particles may cause respiratory irritation. Dust and fumes produced during handling and processing may cause irritation to the respiratory system. The carbon black is physically bound to the outer layers of the Elemix additive product, minimizing inhalation hazard.

Section 3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Component</th>
<th>Percent by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-53-6</td>
<td>Polystyrene</td>
<td>&gt;99</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

Additional Information
This product is hazardous under 29 CFR 1910.1200 (Hazard Communication).
Material Safety Data Sheet

Material Name: **Elemix® Concrete Additive, Grey, Aged**

This product is a controlled product under Canadian WHMIS regulations.
This product is not regulated as hazardous material/dangerous goods for transportation.

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**Section 4 - First Aid Measures**

**First Aid: Eyes**
Remove contact lenses, if worn, and immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention if symptoms develop or persist.

**First Aid: Skin**
Wash affected area with soap and water. Seek medical attention if symptoms develop or persist. In case of contact with molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product, or molten product that has cooled, from skin without medical assistance.

**First Aid: Inhalation**
Move affected individual to non-contaminated air. Loosen tight clothing such as a collar, tie, belt or waistband to facilitate breathing. Seek immediate medical attention if the individual is not breathing, is unconscious or if any other symptoms persist.

**First Aid: Ingestion**
Product is not expected to be absorbed from the gastrointestinal tract. DO NOT INDUCE VOMITING. Loosen tight clothing such as a collar, tie, belt or waistband. Seek immediate medical attention.

**First Aid: Notes to Physician**
Burns should be treated as thermal burns. Molten resin detaches as healing occurs; therefore, immediate removal from the skin is not necessary. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. After adequate first aid, no further treatment is necessary unless symptoms reappear. Ingested material should pass through the digestive system without injury.

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**Section 5 - Fire Fighting Measures**

**See Section 9: Physical Properties for flammability limits, flash point and auto-ignition information.**

**General Fire Hazards**
This product is not considered flammable according to OSHA, but will burn on prolonged exposure to flame or high temperature. Accumulated dusts may form an explosive mixture with air. Risk of dust-air explosion is increased if flammable vapors are also present. May accumulate hazardous static charge. Product may contain residual blowing agent which can accumulate in confined space. Blowing agents are a dangerous fire and explosion risk. Vigorously supports combustion. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Move bulk bags from the fire area if this can be done without risk.

**Explosion Hazards**
Product may contain residual blowing agent which can accumulate in confined space. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Accumulated fine dusts may form an explosive mixture with air. Take precautionary measures to prevent contact with electrostatic discharges. Risk of dust-air explosion is increased if flammable vapors are present.

**Hazardous Combustion Products**
Styrene, oxides of carbon, and other toxic gases at elevated temperatures.

**Extinguishing Media**
Dry chemical, foam, carbon dioxide, water fog or spray. Use water to cool fire-exposed bulk bags and to protect personnel. Do not use direct water stream.

**Fire Fighting Equipment/Instructions**
Position upwind. Keep unnecessary personnel away. Move bulk bags from fire area if you can do so without risk. Fight fire from maximum distance or use unmanned holders or monitor nozzles. Immediately withdraw in case of fire and tank venting or heat discoloration of a container. Fire fighters should wear full-face, self-contained breathing apparatus and thermal protective clothing. Avoid inhaling any smoke and combustion products. Remove and clean or destroy any contaminated clothing. Cool bulk bags with flooding quantities of water until well after the fire is out. Control runoff waters to prevent entry into sewers, drains, ditches, underground or confined spaces and waterways.
Section 6 - Accidental Release Measures

Evacuation Procedures
Isolate area. Keep unnecessary personnel away. Alert stand-by emergency and fire fighting personnel.

Small Spills
Spilled product may create a dangerous slipping hazard. Eliminate all sources of ignition. Consider isolating the spill or leak area immediately until ambient air sampling results indicate that the pentane vapor (blowing agent) concentration is below the flammable range. Use appropriate non-sparking tools to put the spilled solid in an appropriate waste disposal container.

Large Spills
Flammable vapors may be released from spills. Use water spray curtain to divert vapor drift. Eliminate all sources of ignition. Consider evacuating the spill or leak area immediately until ambient air sampling results indicate that the pentane vapor (blowing agent) concentration is below the flammable range. Prevent entry of product into sewers, drains, ditches, underground or confined spaces and waterways. Dike if needed.

Special Procedures
Contact local police/emergency services and appropriate emergency telephone numbers provided in Section 1. Ensure that statutory and regulatory reporting requirements in the applicable jurisdiction are met. Wear appropriate protective equipment and clothing during cleanup. Individuals without appropriate protective equipment should be excluded from area of spill until cleanup has been completed.

Damaged or Suspect Damaged Containers
If bulk bags are damaged or suspected to have been damaged during transit, open the truck trailer door slowly and ventilate for 15 minutes. Never permit smoking. Test the atmosphere to ensure the air is free of pentane (blowing agent) before entering.

Section 7 - Handling and Storage

Handling Procedures
Handle in contained and properly designed equipment systems. Handle and process this product in a cool, well-ventilated place. Provide adequate ventilation at all times. Avoid ingestion and inhalation. Keep this product from heat, sparks, lit smoking materials (cigarettes), static electricity discharges or open flame. Ground and bond all material handling and transfer equipment to dissipate buildup of static electricity. Keep handling areas free of loose beads and dust accumulation. Mechanical operations involving this product should be done in such a manner as to prevent or minimize dust generation. Fines or dust contained in granular resins may accumulate in material handling systems. If permitted to accumulate, these fines or dust can, under certain conditions, pose an explosion hazard. Every effort should be made to prevent suspension, concentration or accumulation of fines or dusts in, or around, material handling systems. For additional information on control of static and minimizing potential dust and fire hazards, refer to NFPA 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids, 2006 Edition." Spilled product may create a dangerous slipping hazard. Keep away from incompatibles such as oxidizing agents and organic materials. Keep this material in a cool, well-ventilated place.

Maintain sufficient air circulation and ventilation to prevent flammable concentrations from forming, especially in low-lying areas. After opening the bulk bag in a well-ventilated area, allow 15 minutes for the accumulated pentane (blowing agent) to dissipate. Partially opened bulk bags represent a potentially serious hazard because the insides of the container permit a space for the pentane to accumulate.

Shipping containers, trucks and trailers should be ventilated for at least 15 minutes prior to unloading.
Material Safety Data Sheet

Material Name: **Elemix® Concrete Additive, Grey, Aged**

Storage Procedures

Store only in sealed original bulk bag in a dry, cool, well-ventilated area out of direct sunlight. Store product away from incompatible materials, heat, sparks, lit smoking materials (cigarettes), static electricity discharges, open flame, or any other potential ignition sources. Do not store near spark-producing equipment. Shatter-proof lighting and intrinsically safe electrical systems are recommended. Store according to applicable standards and regulations for flammable materials. Have appropriate monitoring/detection and extinguishing capabilities readily available in storage areas (e.g. flammable gas detectors, fixed systems such as sprinkler and deluge systems, portable fire extinguishers). Storage areas should be clearly identified, well-illuminated, and clear of obstruction. Adequate security must be provided so that unauthorized personnel do not have access to product.

Remove bulk bags from storage area prior to opening. Bulk bags should be opened only in well ventilated areas. Use only properly grounded and bonded systems when handling or transferring product. Use only non-sparking or static dissipative tools. Re-seal previously opened bulk bag liners prior to placing partial bags into storage. Do not enter filled bulk bags or attempt to walk on bulk bags or spilled product due to risk of slipping and possible suffocation.

*See Section 8: Exposure Controls/Personal Protection for appropriate Personal Protective Equipment. See Section 10 for information on Incompatibilities.*

**Section 8 - Exposure Controls / Personal Protection**

**Exposure Guidelines**

**A: General Product Information**

Refer to published exposure limits - utilize effective control measures and PPE to maintain worker exposure to concentrations that are below these limits. Ensure that eyewash stations and safety showers are in close proximity to work locations.

**B: Component Exposure Limits**

ACGIH, OSHA, NIOSH, EPA, Alberta and Ontario exposure limit lists have been checked for major components listed with CAS registry numbers. Other exposure limits may apply; check with authorities.

*NOTE: The Vacated OSHA Permissible Exposure Limits (PELs) are those provided in the 1989 update to OSHA's Air Contaminants Standard 29 CFR 1910.1000. These limits were vacated by the U.S. Court of Appeals, Eleventh Circuit buy may be enforceable in some states.*

**Carbon black (1333-86-4)**

<table>
<thead>
<tr>
<th></th>
<th>ACGIH:</th>
<th>OSHA (Vacated)*:</th>
<th>OSHA Final:</th>
<th>NIOSH:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.0 mg/m3 TWA</td>
<td>3.5 mg/m3 TWA</td>
<td>3.5 mg/m3 TWA</td>
<td>3.5 mg/m3 TWA; 0.1 mg/m3 TWA (carbon black in presence of polycyclic aromatic hydrocarbons, as PAH)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1750 mg/m3 IDLH</td>
</tr>
<tr>
<td>Alberta</td>
<td>3.5 mg/m3 TWA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ontario</td>
<td>3.5 mg/m3 TWA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Polystyrene (9003-53-6)**

<table>
<thead>
<tr>
<th></th>
<th>ACGIH:</th>
<th>OSHA (Vacated)*:</th>
<th>OSHA Final:</th>
<th>Alberta:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) (related to Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))</td>
<td>15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) (related to Particulates not otherwise regulated)</td>
<td>15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) (related to Particulates not otherwise regulated)</td>
<td>10 mg/m3 TWA (total particulate); 3 mg/m3 TWA (respirable particulate) (related to Particulates not otherwise regulated)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ontario:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 mg/m3 TWA (inhalable); 3 mg/m3 TWA (respirable) (related to Particulates (insoluble or poorly soluble) Not Otherwise Classified (PNOC))</td>
</tr>
</tbody>
</table>
ENGINEERING CONTROLS
Engineering methods to reduce hazardous exposure are preferred controls. Methods include mechanical ventilation (dilution and local exhaust), process or personal enclosure, remote and automated operation, control of process conditions, leak detection and repair systems and other process modifications. Ensure all exhaust ventilation systems are discharged to outdoors, away from air intakes and ignition sources. Supply sufficient replacement air to make up for air removed by exhaust systems. Administrative (procedure) controls and use of personal protective equipment may also be required.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face
Wear safety glasses during normal handling. Wear full-face shield if contact with molten material is likely.

Personal Protective Equipment: Skin/Hands/Feet
Use impervious gloves when handling product. Work clothing that sufficiently prevents skin contact should be worn such as coveralls and/or long sleeves and pants. Fire resistant (i.e., Nomex) or natural fiber clothing (i.e., cotton or wool) is recommended. Synthetic clothing can generate static electricity and is not recommended where a flammable vapor release may occur. Wear safety footwear with good traction to prevent slipping. Static dissipative (SD) rated footwear is recommended.

Personal Protective Equipment: Respiratory
If engineering controls and ventilation are not sufficient to prevent buildup of dusts or vapors, appropriate NIOSH approved air-purifying respirators or self-contained breathing apparatus (SCBA) appropriate for exposure potential should be used. Air-supplied breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

Personal Protective Equipment: General
Personal protective equipment (PPE) should not be considered a long-term solution to exposure control. Employer programs to properly select, fit, maintain and train employees to use equipment must accompany PPE. Consult a competent industrial hygiene resource, the PPE manufacturer's recommendation and/or applicable regulations to determine hazard potential and ensure adequate protection.

Section 9 - Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Physical State and Appearance:</th>
<th>Solid foamed beads</th>
<th>Color:</th>
<th>Grey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor:</td>
<td>Slightly fruity, aromatic</td>
<td>pH:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Not available</td>
<td>Vapor Density at 0ºC (Air&lt;1):</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>Not available</td>
<td>Melting Point:</td>
<td>240ºC (464ºF) (Polystyrene)</td>
</tr>
<tr>
<td>Solubility (H2O):</td>
<td>Insoluble</td>
<td>Specific Gravity (Water&lt;1):</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Auto Ignition:</td>
<td>427ºC (800.6ºF) (Polystyrene)</td>
<td>Softening Point:</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>Not available</td>
<td>Flash Point Method:</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Flammable Limit (LFL):</td>
<td>Not available</td>
<td>Upper Flammable Limit (UFL):</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability Classification:</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 10 - Stability & Reactivity Information

Chemical Stability
This product is stable under normal use conditions for shock, vibration, pressure or temperature.

Instability
No information is available.

Chemical Stability: Conditions to Avoid
Keep this product from heat, ignition sources, static electricity discharges and incompatible materials.

Incompatibility
Not resistant to oxidizing agents, dissolves in organic solvents. Powders or dusts may form an explosive mixture with air. Risk of dust-air explosion is increased if flammable vapours are also present.

Possibility of Hazardous Reactions or Hazardous Polymerization
Hazardous polymerization not likely to occur.

Corrosivity
Not corrosive to the common metals.
Material Safety Data Sheet

Material Name: **Elemix® Concrete Additive, Grey, Aged**

**Hazardous Decomposition**
Styrene, oxides of carbon, and other toxic gases at elevated temperatures.

<table>
<thead>
<tr>
<th>Section 11 - Toxicological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A: Acute Toxicity - General Product Information</strong></td>
</tr>
<tr>
<td>This product has not been tested. Exposure to high levels of dust or heated fumes may be irritating to the eyes. Skin/eye contact with molten or heated material may cause burns. Vapors/heated fumes may be irritating to the respiratory system.</td>
</tr>
<tr>
<td><strong>B: Acute Toxicity - LD50/LC50</strong></td>
</tr>
<tr>
<td><strong>Carbon black (1333-86-4)</strong></td>
</tr>
<tr>
<td>Oral LD50 Rat &gt;15400 mg/kg; Dermal LD50 Rabbit &gt;3 g/kg</td>
</tr>
<tr>
<td><strong>C: Chronic Toxicity - General Product Information</strong></td>
</tr>
<tr>
<td>No information for the product as a tested mixture. While the following information has been found for this product’s components, the product is expected to present a lesser degree of hazard for typical industrial or commercial handling by trained personnel since the hazardous component is physically bound to the outer layer of the product. <strong>Carbon black</strong> - Prolonged contact may cause irritation to the eyes and skin. Carbon black has been classified by IARC as a possible human carcinogen (category 2B).</td>
</tr>
<tr>
<td><strong>D. Chronic Toxicity - Carcinogenic Effects</strong></td>
</tr>
<tr>
<td>ACGIH, EPA, IARC, OSHA, and NTP carcinogen lists have been checked for selected similar materials or those components with CAS registry numbers.</td>
</tr>
<tr>
<td><strong>Polystyrene (9003-53-6)</strong></td>
</tr>
<tr>
<td>IARC: Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))</td>
</tr>
<tr>
<td><strong>Carbon black (1333-86-4)</strong></td>
</tr>
<tr>
<td>ACGIH: A4 - Not Classifiable as a Human Carcinogen</td>
</tr>
<tr>
<td>IARC: Monograph 93 [in preparation]; Monograph 65 [1996] (Group 2B (possibly carcinogenic to humans))</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 12 - Ecological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ecotoxicity</strong></td>
</tr>
</tbody>
</table>
The information below is based on knowledge of the components and the ecotoxicity of similar products. Sewer/waterway obstruction; marine life may ingest beads which may obstruct their digestive tract. Product is expected to be non-toxic but small particles may have physical effects on aquatic and terrestrial organisms. |
| **Component Analysis - Ecotoxicity - Aquatic Toxicity** |
| **Carbon black (1333-86-4)** |
| **Test and Species** | **Results and Conditions** |
| 24 Hr EC50 Daphnia magna | >5600 mg/L |
| **Environmental Fate/Mobility** |
| No information available for the product as a tested mixture. This product will float in freshwater and/or seawater. May be persistent in aquatic and terrestrial systems. Product should be recovered from water and land following spills. |
| **Persistence/Degradability** |
| No information available for the product as a tested mixture. Expected to be inherently non-biodegradable. Integrated environmental half-life expected to be >= 100 days. Do not allow product to enter sewer or waterways. Blowing agents are expected to rapidly volatize from soil and water. |
| **Bioaccumulation/Accumulation** |
| No information available for the product as a tested mixture. It is considered to have little potential for bioaccumulation or food chain concentration. |
Section 13 - Disposal Considerations

U.S./Canadian Waste Information

A: General Product Information

This product, if discarded, is not expected to be a hazardous waste according to US or Canadian regulations. The use, mixing or processing of this product may alter its properties or hazards. Check local, state, federal and provincial environmental regulations prior to disposal. Preferred disposal methods for polymers in order of preference are: 1) clean and reuse if possible; 2) recover and resell through plastic recyclers or resin brokers, 3) incinerate with waste heat recovery and 4) landfill. Reuse, recycling, storing, transportation and disposal must be in accordance with applicable federal, state/provincial and local regulations. DO NOT ATTEMPT DISPOSAL BY UNCONTROLLED IGNITION. Open burning of plastics at landfills is not acceptable.

See Section 7: Handling and Storage and Section 8: Exposure Controls/Personal Protection for additional handling information that may be applicable for safe handling and the protection of employees.

Waste generator is advised to carefully consider hazardous properties and control measures needed for other materials that may be found in the waste.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Section 14 - Transportation Information

International Air Transport Association (IATA) and International Civil Aviation Organization (ICAO) Information
Shipping Name: NOT REGULATED as Dangerous Goods for Transportation.

International Maritime Dangerous Goods (IMDG) Code
Shipping Name: NOT REGULATED as Dangerous Goods for Transportation.

US DOT Information
Shipping Name: NOT REGULATED as Hazardous Material for Transportation.

Canadian TDG Information
Shipping Name: NOT REGULATED as Dangerous Goods for Transportation.

ADR Transportation Regulations
Shipping Name: NOT REGULATED as Dangerous Goods for Transportation.

RID Transportation Regulations
Shipping Name: NOT REGULATED as Dangerous Goods for Transportation.

Section 15 - Regulatory Information

A: International Regulations

The monomer is listed by EINECS for polystyrene homopolymer.

Component Analysis - International Inventory Status

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>US - TSCA</th>
<th>EU - EINECS</th>
<th>CANADA - DSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polystyrene</td>
<td>9003-53-6</td>
<td>Yes</td>
<td>Exempt</td>
<td>Yes</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

B: USA Federal & State Regulations

Ongoing occupational hygiene, medical surveillance programs, site emission or spill reporting may be required by federal or state regulations. Check for applicable regulations.

USA OSHA Hazard Communication Class
This material is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
HCS CLASS: MAY CAUSE CANCER

USA Right-to-Know - Federal

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

USA Right-to-Know - State

The following components appear on one or more of the following state hazardous substances lists. Some components (including those present only in trace quantities, and therefore not listed in this document) may be
Material Safety Data Sheet

Material Name: **Elemix® Concrete Additive, Grey, Aged**

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

**WARNING!** This product contains a chemical known to the state of California to cause cancer.

**C: Canadian Regulations - Federal and Provincial**

Canadian Environmental Protection Act (CEPA): All components of this product are on the Domestic Substances List (DSL), and are acceptable for use under the provisions of CEPA.

**WHMIS Ingredient Disclosure List (IDL)**

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List (IDL):

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**WHMIS Classification**

Workplace Hazardous Materials Information Systems (WHMIS): This product has been classified in accordance with Canadian Controlled Product Regulations (CPR) hazard criteria and this MSDS contains complete CPR-required information.

WHMIS CLASS D2A: Carcinogen (Carbon Black)

**Other Regulations**

Ongoing occupational hygiene, medical surveillance programs, site emission or spill reporting may be required by federal or provincial regulations. Check for applicable regulations.

**Section 16 - Other Information**

**Label Information**

Product is a solid, grey, foamed bead and may have a slightly fruity, aromatic odor. This product is not considered flammable according to OSHA, but will burn on prolonged exposure to flame or high temperature. Product may outgas residual blowing agent that can collect in confined areas and is highly flammable in the presence of open flames, lit cigarettes, sparks, static electricity discharges or heat. This product may be irritating to the eyes, skin and respiratory system. When heated to decomposition, product emits acrid smoke and irritating fumes. Slipping hazard.

**FIRST AID:**

**SKIN:** Wash affected area with soap and water. Seek medical attention if symptoms develop or persist. In case of contact with molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product, or molten product that has cooled, from skin without medical assistance.

**EYES:** Remove contact lenses, if worn. Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention if symptoms develop or persist.

**INHALATION:** Move affected individual to non-contaminated air. Loosen tight clothing such as a collar, tie, belt or waistband to facilitate breathing. Seek immediate medical attention if the individual is not breathing, is unconscious or if any other symptoms persist.

**INGESTION:** Product is not expected to be absorbed from the gastrointestinal tract. **DO NOT INDUCE VOMITING.** Loosen tight clothing such as a collar, tie, belt or waistband. Seek immediate medical attention.

**IN CASE OF A SPILL:** Eliminate all sources of ignition. Use appropriate non-sparking and grounded tools and equipment to put the spilled solid in an appropriate waste disposal container. Prevent entry into sewers, basements or confined areas; dike if needed. Slipping hazard.

**References**

Available on request.
Material Safety Data Sheet

Material Name: **Elemix® Concrete Additive, Grey, Aged**  
MSDS ID: ELEMIX-0201

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADR = Transport of Dangerous Goods by Road; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; BOD = Biochemical Oxygen Demand; CAS = Chemical Abstracts Service; CEPA = Canadian Environmental Protection Act; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CFR = Controlled Products Regulations; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EC50 = Effective Concentration 50%; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EPA = Environmental Protection Agency; EU = European Union; FDA = Food and Drug Administration; GHS = Globally Harmonized System for the Classification and Labelling of Chemicals; HCS = Hazard Communication Standard; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; ICAO = International Civil Aviation Organization; IDL = Ingredient Disclosure List; IDLH = Immediately Dangerous to Life or Health; IMDG = International Maritime Dangerous Goods; IMO = International Maritime Organization; ISHL = Industrial Safety and Health Law; Kow = Octanol/water partition coefficient; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; LEL = Lower Explosive Limit; LFL = Lower Flammable Limit; LLV = Level Limit Ceiling Limit (Sweden dust); MAK = Maximum Concentration Value in the Workplace; MITI = Ministry of International Trade and Industry; MSDS = Material Safety Data Sheet; NAB = Threshold Values (Indonesia); NCEC = National Chemical Emergency Centre; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NTP = National Toxicology Program; OEL = Occupational Exposure Limit; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit; PNOC = Particulates Not Otherwise Classified; PRTR = Designated Chemical Substance Law (Japan); PSD = Short Term Exposure Limit (Indonesia); REL = Recommended Exposure Limit; RID = Transport of Dangerous Goods by Rail; SCBA = Self Contained Breathing Apparatus; SDS = Safety Data Sheet; SEPA = State Environmental Protection Administration; STEL = Short Term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; UEL = Upper Explosive Limit; UFL = Upper Flammable Limit; VLA-ED = Valor límite Ambiental de Exposición Diaria (Environmental Exposure Daily Limit Value); VME = valeur limite d'exposition (Occupational Exposure Limits); WHMIS = Workplace Hazardous Materials Information Systems

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Other Information

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This is the end of MSDS # ELEMIX-0201.