SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product form: Mixture
Product name: Class C Fly Ash Post Fast-Set

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Construction materials.

1.3. Details of the supplier of the safety data sheet
Precision Packaging Inc. or Materials Packaging Corporation
10809 Executive Center, Suite 321
Little Rock, AR 72211
T 501-224-3882

1.4. Emergency telephone number
Emergency number: CHEMTREC (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Acute toxicity 4 (Oral) Carcinogenicity 1A Specific Target Organ Toxicity After Repeated Exposure 1

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US): ![](GHS07) ![](GHS08)
Signal word (GHS-US): Danger
Hazard statements (GHS-US): Harmful if swallowed. May cause cancer. Causes damage to lungs through prolonged or repeated exposure.
Prevention statements (GHS-US): Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and clothing as well as eye and face protection. Do not breathe dust. Use the proper respirator, when necessary, to avoid injury.
Response statements (GHS-US): If swallowed, immediately call a poison center/doctor. Rinse mouth. If exposed or concerned, get medical attention.
Storage statements (GHS-US): Store locked up.
Disposal statements (GHS-US): Dispose of contents and container in accordance with all local, state, and federal regulations.
Supplemental Information
Read and Follow all precautions listed in the Safety Data Sheet available on request or at Ashgrovepkg.com. Additional information on the selection and use of respirators can be found in the NIOSH Respirator Selection Logic (DHHS [NIOSH] Publication No. 2005-100) and the NIOSH Guide to Industrial Respiratory Protection (DHHS [NIOSH] Publication No. 87-116) available at [http://www.cdc.gov/niosh/docs/87-116/](http://www.cdc.gov/niosh/docs/87-116/).

This product contains greater than 0.1% crystalline silica. Crystalline silica has been linked to cancer, silicosis, and other lung problems in conditions of prolonged airborne over-exposure.

2.3. Other hazards
Other hazards not contributing to the classification: Not applicable.

3.1. Substance
Not applicable.

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz</td>
<td>(CAS No) 14808-60-7</td>
<td>≤ 10</td>
<td>Acute Tox. 4 (Oral), H302 Carc. 1A, H350 STOT RE 1, H372</td>
</tr>
<tr>
<td>Ashes (residues)</td>
<td>(CAS No) 68131-74-8</td>
<td>90 - 100</td>
<td>Not Controlled.</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures after inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact: If irritation occurs, flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
First-aid measures after eye contact: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
First-aid measures after ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if distress develops.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after inhalation: May cause respiratory tract irritation.
Symptoms/injuries after skin contact: May cause skin irritation. Symptoms may include skin abrasion and redness.
Symptoms/injuries after eye contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media: Treat for surrounding material.

5.2. Special hazards arising from the substance or mixture
Fire hazard: None.

5.3. Advice for firefighters
Protection during firefighting: Keep upwind of fire. Wear full fire fighting turnout gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Use personal protection recommended in Section 8. Clean up quickly and avoid generating dust. Wear suitable respiratory protection if dusty conditions arise. Avoid contact with eyes.

6.2. Methods and material for containment and cleaning up
For containment: Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for cleaning up: Vacuum or sweep material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections
See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid contact with eyes. Do not swallow. Avoid generating and breathing dust. Good housekeeping is important to prevent accumulation of dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. When using do not eat, drink or smoke.
Hygiene measures: Launder clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: No special storage requirements are needed.

7.3. Specific end use(s)
No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Material</th>
<th>ACGIH TWA (mg/m³)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>0.025 mg/m³ (respirable fraction)</td>
<td>(30)/(%SiO₂ + 2) mg/m³ TWA, (total dust)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(250)/(%SiO₂ + 5) mppcf TWA, (respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(10)/(%SiO₂ + 2) mg/m³ TWA, (respirable fraction)</td>
</tr>
</tbody>
</table>
Fly Ash Products
Safety Data Sheet

8.2. Exposure controls
Appropriate engineering controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection: Wear standard work gloves (leather, cotton, coated cotton, etc.) as needed to prevent abrasion.
Eye protection: Safety glasses or goggles are recommended when using product.
Skin and body protection: Wear suitable clothing common to do-it-yourself projects.
Respiratory protection: A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls: Maintain levels below Community environmental protection thresholds.
Other information: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: Dry powder mix.
Appearance: Fine to coarse granul.
Colour: Gray.
Odour: None.
Odour threshold: Not applicable.
Relative evaporation rate (butylacetate=1): No data available.
Melting point: No data available.
Freezing point: No data available.
Boiling point: Not applicable.
Flash point: Not applicable.
Self ignition temperature: No data available.
Decomposition temperature: No data available.
Flammability (solid, gas): Not flammable.
Vapour pressure: No data available.
Relative vapour density at 20 °C: No data available.
Relative density: Not applicable.
Solubility: No data available.
Log Pow: No data available.
Log Kow: No data available.
Viscosity, kinematic: Not applicable.
Viscosity, dynamic: Not applicable.
Explosive properties: No data available.
Oxidising properties: No data available.
Explosive limits: No data available.

9.2. Other information
VOC content: 0

SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reaction known under conditions of normal use.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid
Incompatible materials.

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products
None known.
Fly Ash Products
Safety Data Sheet
according to

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Harmful if swallowed.

Quartz (14808-60-7)
LD50 oral rat: 500 mg/kg

Ashes (residues) (68131-74-8)
LD50 oral rat: >2000 mg/kg

Fly Ash Products
ATE (oral): 1538 mg/kg, rat
ATE (dermal): No data available.
ATE (inhalation): No data available.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: May cause cancer.

Quartz (14808-60-7)
IARC group: 1
National Toxicology Program (NTP) Status: 2

Reproductive toxicity: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure): Causes damage to lungs through prolonged or repeated exposure. (Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.)
Aspiration hazard: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation: May cause respiratory tract irritation.
Symptoms/injuries after skin contact: May cause skin irritation. Symptoms may include skin abrasion and redness.
Symptoms/injuries after eye contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: Not considered to be harmful to aquatic life.

12.2. Persistence and degradability
Fly Ash Products
Persistence and degradability: No data available.

12.3. Bioaccumulative potential
Fly Ash Products
Bioaccumulative potential: No data available.

12.4. Mobility in soil
Fly Ash Products
Ecology - soil: No data available.

12.5. Other adverse effects
Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

08/14/2014 EN (English) 4/5
SECTION 14: Transport information

In accordance with DOT:

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Additional information
Other information : No supplementary information available.

15.1. US Federal regulations

Quartz (14808-60-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Ashes (residues) (68131-74-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.3. US State regulations
Fly Ash Products
State or local regulations : This product contains Crystalline Silica, Quartz and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Quartz (14808-60-7)
U.S. - California - Proposition 65 - Carcinogens List
Yes.
U.S. - California - Proposition 65 - Developmental Toxicity
No.
U.S. - California - Proposition 65 - Reproductive Toxicity - Female
No.
U.S. - California - Proposition 65 - Reproductive Toxicity - Male
No.
No significance risk level (NSRL)

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

<table>
<thead>
<tr>
<th>IARC (I)</th>
<th>International Agency for Research on Cancer.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - Carcinogenic to humans;</td>
<td></td>
</tr>
<tr>
<td>2A - Probably carcinogenic to humans;</td>
<td></td>
</tr>
<tr>
<td>2B - Possibly carcinogenic to humans;</td>
<td></td>
</tr>
<tr>
<td>3 - Not classifiable;</td>
<td></td>
</tr>
<tr>
<td>4 - Probably not carcinogenic to humans.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NTP (N)</th>
<th>National Toxicology Program.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - Evidence of Carcinogenicity;</td>
<td></td>
</tr>
<tr>
<td>2 - Known Human Carcinogens;</td>
<td></td>
</tr>
<tr>
<td>3 - Reasonably anticipated to be Human Carcinogen;</td>
<td></td>
</tr>
<tr>
<td>4 - Substances delisted from report on Carcinogens;</td>
<td></td>
</tr>
<tr>
<td>5 - Twelfth Report - Items under consideration.</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 16: Other information


NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.