### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>Chemical Name</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Trade Name</td>
<td>3-Mix-Processed Glass Abrasive</td>
</tr>
<tr>
<td></td>
<td>CAS No.</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

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

- **Identified Use(s)**: Abrasive
- **Uses Advised Against**: None.

#### Details of the supplier of the safety data sheet

- **Company Identification**: Strategic Materials, Inc.
  
  17220 Katy Freeway, Suite 150
  Houston, TX 77094

- **Telephone**: 1-281-647-2705
- **Fax**: 1-281-647-2710
- **E-Mail (competent person)**: msds@strategicmaterials.com

#### Emergency telephone number

- **Emergency Phone No.**: 1-281-647-2705 (Monday – Friday; 8:00 AM – 5:00 PM Central Time Zone)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

- **OSHA HCS (29 CFR 1910.1200) / GHS Classification**: Hazard Not Otherwise Classified (HNOC) - Mechanical irritation of the respiratory tract. Mechanical irritation of the skin and eyes.

#### Label elements

- **Hazard Symbol**: None
- **Hazard Statement(s)**: Prolonged and repeated exposures to fine particles may cause: Mechanical irritation of the respiratory tract. Mechanical irritation of the skin and eyes.
- **Precautionary Statement(s)**: None
- **Other hazards**: None anticipated
- **Additional Information**: Warning - substance not yet tested completely.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>Hazard Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass oxides</td>
<td>100</td>
<td>--------</td>
<td>Mechanical irritation of the respiratory tract. Mechanical irritation of the skin and eyes.</td>
</tr>
</tbody>
</table>

#### Additional Information

- This product, as supplied, contains <0.1% crystalline silica.

### SECTION 4: FIRST AID MEASURES
Description of first aid measures

Inhalation
Unlikely to be required but if necessary treat symptomatically.

Skin Contact
Unlikely to be required but if necessary treat symptomatically.

Eye Contact
If substance has gotten into the eyes, wash out with water. Get immediate medical attention.

Ingestion
Unlikely to be required but if necessary treat symptomatically.

Most important symptoms and effects, both acute and delayed
None

Indication of any immediate medical attention and special treatment needed
None

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media
- Suitable Extinguishing Media: Non-combustible. As appropriate for surrounding fire.
- Unsuitable Extinguishing Media: None anticipated.

Special hazards arising from the substance or mixture
None

Advice for fire-fighters
As appropriate for surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Not normally required.

Environmental precautions
Not normally required.

Methods and material for containment and cleaning up
Transfer to a container for disposal or recovery.

Reference to other sections
None

Additional Information
None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Comply with occupational limit values for dust. Ground / bond equipment to prevent build-up of static electricity.

Conditions for safe storage, including any incompatibilities
- Storage temperature: Store at room temperature.
- Incompatible materials: None

Specific end use(s)
Abrasive

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>TLV (ACGIH)</td>
</tr>
<tr>
<td>Particulate Matter</td>
<td>-----</td>
<td>15^ / 10*</td>
<td>10^^ / 3*</td>
</tr>
<tr>
<td>Calcium Oxide</td>
<td>1305-78-8</td>
<td>5^</td>
<td>2^</td>
</tr>
<tr>
<td>Aluminum Oxide</td>
<td>1344-28-1</td>
<td>15^ / 5*</td>
<td>1^</td>
</tr>
<tr>
<td>Magnesium Oxide</td>
<td>1309-48-4</td>
<td>15**</td>
<td>10^^</td>
</tr>
</tbody>
</table>

- LTEL: Long Term Exposure Limit; - STEL: Short Term Exposure Limit; - ^Total Dust / *Respirable Dust / ^^Inhalable Dust / **Fume; Cal. OSHA 10 mg/m3.


**3-Mix-Processed Glass Abrasive**

**Recommended monitoring method**
NIOSH 0500 / 0600

**Exposure controls**

**Appropriate engineering controls**
The following to be used as necessary: Hand tool with integrated exhaust, glove box, local exhaust ventilation, control of release of inhalable and / or respirable particulates / aerosols. For abrasive blasting, refer to OSHA 29 CFR 1910.94(a).

**Personal protection equipment**

**Eye/face protection**
The following to be used as necessary: Complete eye and face protection. Safety spectacles/goggles/full face shield.

**Skin protection (Hand protection/ Other)**
The following to be used as necessary: Wear suitable protective clothing and gloves.

**Respiratory protection**
The following to be used as necessary: Supplied-air respirator, air-purifying respirator with N/P-95 cartridge, or filtering-facepiece respirator depending on exposure levels in relation to the above occupational exposure limits.

**Thermal hazards**
Not normally required.

**Environmental Exposure Controls**
Not normally required.

---

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid</td>
</tr>
<tr>
<td>Color</td>
<td>Clear / Colorless, Amber, and / or Green</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor Threshold (ppm)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH (Value)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Softening Point (°C)</td>
<td>728 - 732</td>
</tr>
<tr>
<td>Melting Point (°C) / Freezing Point (°C)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point.boiling range (°C):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>Explosive Limit Ranges</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure (Pascal)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour Density (Air=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Density (g/ml)</td>
<td>Varies ( - )</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility (Water)</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Solubility (Other)</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition Coefficient (n-Octanol/water)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto Ignition Point (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Kinematic Viscosity (mPa·s) @ 22°C</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidizing.</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
<td>Not available</td>
</tr>
</tbody>
</table>

Revision: 3 October 2017  Page: 3/5  Date of Printing: 3 October 2017
SECTION 10: STABILITY AND REACTIVITY

Reactivity
Stable under normal conditions.

Chemical stability
Stable.

Possibility of hazardous reactions
None anticipated.

Conditions to avoid
None known

Incompatible materials
None

Hazardous decomposition product(s)
None known

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Skin Contact, Eye Contact, Inhalation

Information on toxicological effects

Acute toxicity
Will not occur.

Irritant
Mechanical irritation of the skin and eyes.

Sensitization
It is not a skin sensitizer.

Repeated dose toxicity
Will not occur.

Mutagenicity
Will not occur.

Carcinogenicity
Not known or reasonably anticipated to cause cancer in humans

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Other information
Warning - substance not yet tested completely. Prolonged and repeated exposures to fine particles may cause: Mechanical irritation of the respiratory tract. Mechanical irritation of the skin and eyes. In addition, inflammation and cell damage in the nose and larynx of laboratory animals has been reported.

SECTION 12: ECOLOGICAL INFORMATION

Substances in preparations / mixtures:

Acute toxicity
Will not occur.

Long Term Toxicity
Will not occur.

Persistence and degradability
This product is predicted not to degrade in soil and water.

Bioaccumulative potential
The product has no potential for bioaccumulation.

Mobility in soil
The product is predicted to have low mobility in soil.

Results of PBT and vPvB assessment
Not classified as PBT or vPvB.

Other adverse effects
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice. Used abrasive blasting grit must be characterized before disposal.

Additional Information
None known.

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Land transport (U.S. DOT)</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO/IATA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Not classified as dangerous for transport.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

RCRA Hazardous Waste Number (40 CFR 261.33): None
US RCRA Hazard Class: None

SARA 311/312 - Hazard Categories: None
- [ ] Fire
- [ ] Sudden Release
- [ ] Reactivity
- [ ] Immediate (acute)
- [ ] Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372): None
SARA 302 - Extremely Hazardous Substances: None
Proposition 65 (California): None

SECTION 16: OTHER INFORMATION

Additional Information: None
Date of preparation: October 3, 2017

The following sections contain revisions or new statements: 3 and 8

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