1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND THE COMPANY

Product Identifier

- **Product Name:** Guardian Precoat Powder
- **Trade Name:** Perlite
- **CAS #** 93763-70-3
- **Chemical Formula:** Amorphous Sodium Potassium Aluminum Silicate

Relevant identified uses of the mixture and uses advised against

- **Use:** Pre-conditioning agent for filter bags in dust collector units
- **Uses Advised:** Based on current knowledge, there are no identified uses that are advised against

Details of the Supplier of the Safety Data Sheet

- **Company Name:** Fabco Industrial Services
- **Address:** 1060 Breezewood Ln Ste 6
  Neenah, WI 54956
- **Phone & Fax:** 1-800-473-5251 / Fax 1-920-729-5066
- **Email:** info@fabcoind.com

Emergency Telephone number

- **24 hours:** 1-905-466-3239

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

- **Classification:** None

Label elements

- **According to OSHA 29 CFR 1910.1200 HCS**
Symbol None
Signal word None
Hazard Statement None
Precautionary Statement See Section 8 for Personal Protection Advice
Other Hazards None Known

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>LD50 / LC50</th>
<th>% by weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perlite</td>
<td>CAS # 93763-70-3</td>
<td>Not Available</td>
<td>100</td>
<td>None</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General Advice: When Symptoms persist or in all cases of doubt seek medical advice

Description of First Aid Measures

In the event of exposure by inhalation:

Remove to fresh air.
Encourage patient to blow nose to ensure clear breathing passages.
If irritation or discomfort persists seek medical attention.

In the event of contact with eyes:

Wash out immediately with fresh running water
Ensure complete irrigation of the eye by keeping eyelids apart and away from eye
and moving the eyelids by occasionally lifting the upper and lower lids.
If irritation persists or recurs seek medical attention.
Removal of contact lenses should only be undertaken by skilled personnel.

In the event of contact with skin:

Flush skin and hair with running water (and soap if available)
Seek medical attention in event of irritation

In the event of swallowing:

Give a glass of water. Do not induce vomiting.
First aid is not generally required.
If in doubt, contact a Poison Information Center or a doctor.
Most important symptoms and effects, both acute and delayed

None known

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.

5. FIRE-FIGHTING METHODS

Fire and Explosion Hazard

Negligible fire hazard. Potential explosion hazard by dust cloud ignited by sparks.

Extinguishing Media

Foam, dry chemical, carbon dioxide & water suitable for surrounding material

Suitable Methods of Extinction

Use methods suitable for surrounding material

Unsuitable Methods of Extinction

None known

Special Hazards arising from the mixture

None known

Advice for Firefighters

Firefighters must wear appropriate and approved self-contained, full-face breathing apparatus, full protective outerwear and gloves.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid creating dust clouds, and contact with skin and eyes
Wear gloves, dust goggles and dust mask

Environmental Concerns

Prevent spillage from entering drains or water courses
Recover product wherever possible
No special environmental measures are necessary
Methods and material for containment and cleaning up

Dampen to avoid generating dust
Sweep up, shovel up or vacuum up
Place spilled material in clean, dry, sealable container

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid generating dust or fumes
Treat as nuisance dust
Provide adequate ventilation
Avoid contact with skin, eyes and clothing
Keep away from incompatible products

Recommended equipment and procedures

Wear protective gloves, dust goggles, and dust mask
Wash-up thoroughly after use and before eating or drinking
Wash contaminated clothing before wearing again

Prohibited equipment and procedures

No smoking, eating or drinking in areas where the mixture is used

Conditions for safe storage, including an incompatibilities

Storage  Store with other dusty materials away from sparks and products that could be affected by dust
Packaging  Store in original containers or containers with tight fitting lid

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational exposure limits: Treat as nuisance dust

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Result</th>
<th>ACGIH</th>
<th>WHIMIS</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perlite (containing &gt;0.1% quartz)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>10 mg/m³</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 mg/m³ respirable</td>
<td>3 mg/m³ respirable</td>
<td>3 mg/m³ respirable</td>
</tr>
</tbody>
</table>
Exposure controls

Engineering Controls
Treat as nuisance dust
Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY  Ensure that there is adequate ventilation, especially in confined areas
Avoid breathing dust or fumes
Use a dust mask in accordance with local regulations

EYES / FACE  Wear dust goggles in accordance with local regulations
Prescription glasses are not considered as protection
Individuals wearing contact lenses should wear prescription glasses instead when handling the mixture
Provide eyewash stations in facilities where the product is handled constantly

HANDS  Use rubber gloves in accordance with local regulations

SKIN / BODY  Wear suitable protective clothing i.e. coveralls, work boots
Work clothing worn by personnel should be laundered regularly

GENERAL INDUSTRIAL HYGEINE CONSIDERATIONS

Handle in accordance with good industrial hygiene and safety practice
Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. In areas of high concentration, eye wash should be available close to work areas

ENVIRONMENTAL HYGEINE CONTROLS

Follow best practice for site management and disposal of waste. Avoid release to the environment

Abbreviations:
ACGIH = American Conference of Governmental Industrial Hygiene
TWA = Time Weighted Averages are based on 8h/day, 40hr/week exposures
NIOSH = National Institute of Occupational Safety and Health
WHMIS = Workplace Hazardous Material Information System
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Appearance**  White to off-white powder

**Physical State**  Powder

Important health, safety and environmental information:

**pH**  6.5 - 7.5, as 10% slurry in distilled water

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Order less</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.4</td>
</tr>
<tr>
<td>Boiling Point (°C)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Miscible</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point (°C)</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure (kPa)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Other Information</td>
<td>No data available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Reactivity**  No data available

**Chemical Stability**  Stable under normal conditions

**Possibility of Hazardous Reactions**  Toxic silicon tetrafluoride gas will result with contact with hydrofluoric acid (HF)

**Conditions to avoid**  Avoid excessive dust near electrical or spark generating equipment
Avoid extreme heat

**Incompatible materials**  Avoid contact hydrofluoric acid (HF)

**Hazardous decomposition products**  Toxic silicon tetrafluoride gas will result with contact with hydrofluoric acid (HF)
DO NOT breathe smoke or fumes.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

**Mixture**  The mixture has not been classified as toxic by OSHA, NIOSH, ACGIH, WHMIS or any other governing body.
Skin  Chronic over-exposure may cause dermatitis in sensitive individuals

Eyes  Chronic over-exposure may produce conjunctivitis

Inhalation  The mixture is not thought to produce long-lasting health effects or irritation of the respiratory tract. Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Ingestion  Acute ingestion may result in gastrointestinal distress while chronic exposure may increase damage to kidney or liver in individuals with pre-existing damage or disease. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.

Carcinogenicity: Contains less than 0.1% crystalline silica, and low percentages of particles of respirable size, hence present very low risk

IARC: Not Reviewed

ACGIH: PNOS (Particulates Not Otherwise Specified) Not carcinogenic

Reproductive Toxicity: Not available

Teratogenicity: Not established

Embryotoxicity: Not available

Mutagenicity: Ames: Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic toxicity  Low hazard for usual industrial or commercial handling

Approved for use in soils.

13. DISPOSAL CONSIDERATIONS

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
14. TRANSPORTATION INFORMATION

Classification: NONE
This mixture is not regulated as a hazardous material by DOT, TFG, IMO/IMDG or IATA/ICAO

15. REGULATORY INFORMATION

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

OSHA No label is required by Hazard Communication Standard 29 CFR 1910.1200 (f)

TSCA Included as a naturally occurring material

Disclaimer / Statement of Liability

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1

Users of this product are expected to review the available safety information with employees, agents and contractors before using this product. Customers should also be provided with information in order to ensure safe practices and product usage