

SAFETY DATA SHEET – Preferred OptiFILL+® (All Grades)

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| Product Name: Preferred OptiFILL+® (All Grades) |
| Product Use: Coated Turf Infill. For professional use only. |
| Supplier: Preferred Proppants 104 S Wayne Ave #8308 Wayne, PA 19087 www.preferredsands.com |
| For Non-Emergency information and General Inquiries: 855-372-2435 |
| Emergency Phone: 1-800-424-9300 (CHEMTREC) |

2. HAZARDS IDENTIFICATION

| <u>Potential Health Effects</u> | |
|---|---|
| Symptoms/Injuries After Inhalation: | None expected under normal conditions of use. |
| Symptoms/Injuries After Skin Contact: | Prolonged contact may cause irritation by abrasion. |
| Symptoms/Injuries After Eye Contact: | Prolonged contact will cause irritation by abrasion and may result in corneal injury. |
| Symptoms/Injuries After Ingestion: | Ingestion of this product may cause gastrointestinal irritation. |
| Chronic Symptoms: | None expected under normal conditions of use. |
| Indication of Any Immediate Medical Attention and Special Treatment Needed | If you feel unwell, seek medical advice. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | Product identifier (CAS) | % (w/w) |
|---------------------------------|--------------------------|------------|
| Silica Sand (Non respirable) | 14808-60-7 | 98.0-99.5% |
| Polymer Resin (bound to silica) | Proprietary | 0.5-2.0% |

Respirable silica dust, which can pose significant health risks when inhaled, is a primary concern in various industries that utilize silica sand. However, when sand is properly coated, the issue of respirable silica dust is effectively mitigated. Our advanced OptiFILL+ coating technology effectively encapsulates individual silica particles, addressing concerns related to respirable silica dust, therefore reducing the potential for dust generation and airborne silica exposure. This not only enhances workplace safety by minimizing the risk of respiratory illnesses but also ensures compliance with occupational health standards.

Third party testing has demonstrated that OptiFILL+ coating does not include polyfluoroalkyl substances (PFAs), semi-volatile organics, or heavy metals. Any trace-level impurities that might be present are at concentrations too low to trigger detection or classification. As such, they are not reportable within this section. Therefore, all trace-level components have been excluded from reporting and classification as either a health or environmental hazard.

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4. FIRST AID MEASURES

| Description of First Aid Measures | |
|--|---|
| General: | Immediately flush eyes with running water for at least 15 minutes. Seek medical attention for irritation. |
| Inhalation: | Move to fresh air. Seek medical attention if irritation develops. |
| Skin Contact: | Wash with soap and water. |
| Eye Contact: | Rinse mouth with water. Get medical attention if discomfort persists. |
| Ingestion: | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

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| Suitable Extinguishing Agents | Use extinguishing media appropriate for surrounding fire. |
| Unsuitable Extinguishing Agents | None known |
| Products of Combustion | None anticipated |

| Advice for Firefighters | |
|--------------------------------------|--|
| Precautionary Measures Fire | Exercise caution when fighting any fire |
| Firefighting Instructions | Fight fire from safe distance and protected location. |
| Hazardous Combustion Products | May release toxic fumes, including Formaldehyde, Silicon Oxides, and Carbon Oxides |
| Protection of Firefighters | Fire fighters should wear “bunker gear” and Self-Contained Breathing Apparatus (SCBA). |

6. ACCIDENTAL RELEASE MEASURES

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|----------------------------------|------------------------|
| Personal Precautions | Avoid generating dust. |
| Environmental Precautions | Not available |

| For Non-Emergency Personnel | |
|------------------------------------|---|
| Protective Equipment: | Use appropriate personal protection equipment (PPE). |
| Method of Cleanup | Shovel into containers for reuse. Do not use product contaminated with dirt, water or other materials. Contaminated materials should be disposed of in a suitable facility. |

| Methods and Material for Containment and Cleaning Up | |
|---|--|
| For Containment: | Use appropriate personal protection equipment (PPE). |
| Methods for Cleaning Up: | Avoid generation of dust during clean-up of spills. Use only non-sparking tools. |


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| Reference to Other Sections | See Section 8, Exposure Controls and Personal Protection. |
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7. HANDLING AND STORAGE

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| Additional Hazards When Processed: | Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation. |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety procedures. Use only outdoors or in a well-ventilated area. |
| Storage Conditions | Store in a well-ventilated place. |
| Incompatible Materials | Strong bases. Strong acids. Strong oxidizers. |
| Specific End Use(s) | Turf Infill. For professional use only. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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|--|---|
| Appropriate Engineering Controls | Ensure adequate ventilation, especially in confined areas. |
| Personal Protective Equipment |  Insufficient ventilation: wear respiratory protection. |
| Materials for Protective Clothing | Specific materials not required. |
| Hand Protection | Impermeable protective gloves. |
| Eye Protection | Wear protective goggles. |
| Skin and Body Protection | Wear suitable working clothes. |
| Respiratory Protection | Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits. |
| Other Information | When using, do not eat, drink or smoke |

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--|--|---|--|
| Physical State | Solid | Flash point | Not flammable |
| Appearance | Grayish/Black, Green or Red Granular Sand | Upper/lower Flammable Limits | Not available |
| Odor | Odorless | Auto-ignition Temperature | Not available |
| Odor Threshold | Not available | Decomposition temperature | Not available |
| pH | Not applicable | Relative Evaporation Rate (butyl acetate=1) | Not available |
| Boiling Point | 2230 C | Vapor Pressure | Negligible |
| Melting/Freezing Point | 2930 °F (1610 °C) | Relative Vapor Density at 20 °C | Not available |
| Solubility | Insoluble in water | Density | 2.5 (vs water) |
| Viscosity | Not available | Octanol/Water Partition Coefficient | Not available |
| Flammability (solid, gas) | Not available | Relative Density/Specific Gravity | Not available |
| Explosion Data – Sensitivity to Mechanical Impact | Not expected to present an explosion hazard due to mechanical impact. | Explosion Data – Sensitivity to Static Discharge | Not expected to present an explosion hazard due to static discharge. |

Note: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

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| Reactivity: | Product is stable. |
| Chemical Stability: | Product is not explosive. |
| Conditions to Avoid: | Sparks, heat, open flame and other sources of ignition. |
| Possibility of Hazardous Reactions: | Hazardous polymerization will not occur. |
| Incompatible Materials: | Strong acids, strong bases, strong oxidizers. |
| Hazardous Decomposition Products: | Quartz (silica) will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride. |

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11. TOXICOLOGICAL INFORMATION

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|---|---|
| Acute Toxicity | Not classified |
| LD50 and LC50 Data: | Not available but considered systemically non-toxic. |
| Skin Corrosion/Irritation | Not classified (pH: 6.5 - 7.5) in solution |
| Serious Eye Damage/Irritation | Not classified (pH: 6.5 - 7.5) in solution |
| Respiratory or Skin Sensitization | Not classified |
| Germ Cell Mutagenicity | Not classified |
| Teratogenicity | Not available |
| Reproductive Toxicity | Not classified |
| Aspiration Hazard | Not classified |
| Symptoms/Injuries After Inhalation | None expected under normal conditions of use. |
| Symptoms/Injuries After Skin Contact | Prolonged contact with large amounts of dust may cause irritation by abrasion. |
| Symptoms/Injuries After Eye Contact | Repeated or prolonged contact will cause irritation by abrasion. Prolonged contact may result in corneal injury. |
| Symptoms/Injuries After Ingestion | Ingestion of this product may cause gastrointestinal irritation. |
| Chronic Symptoms | None expected under normal conditions of use. |

12. ECOLOGICAL INFORMATION

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|--------------------------------------|----------------|
| Toxicity | Not classified |
| Persistence and Degradability | Not available |
| Bio-accumulative Potential | Not available |
| Other Adverse Effects | Not available |

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13. DISPOSAL CONSIDERATIONS

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| Waste Disposal Recommendations: | Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations. |
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14. TRANSPORT INFORMATION

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| In Accordance with DOT | Not regulated for transport |
| In Accordance with IMDG | Not regulated for transport |
| In Accordance with IATA | Not regulated for transport |
| In Accordance with TDG | Not regulated for transport |

15. REGULATORY INFORMATION

| US Federal Regulations | |
|--|--|
| Quartz (14808-60-7) | |
| SARA Section 311/312 Hazard Classes | Not applicable |
| TSCA (Toxic Substances Control Act) | Listed on the United States TSCA inventory |

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

| | |
|----------------------------|-------------|
| Revision Date | 10 Jun 2024 |
| Version | 1.6 |
| Former Version Date | 16 Jun 2021 |

| National Fire Protection Association (NFPA): | | |
|--|---|---|
| NFPA Health Hazard | 1 | Exposure could cause irritation by abrasion but only minor residual injury even if no treatment is given. |
| NFPA Flammability | 0 | Materials that will not burn. |
| NFPA Reactivity | 0 | Normally stable, even under fire exposure conditions |

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