SECTION 1 - MATERIAL IDENTIFICATION

Trade Name and Synonyms: Pligun Fast Track 25
Al₂O₃ - 36.8 % SiO₂ - 55.3 %

Recommended Use: Refractory/Construction/maintenance/repair material

SECTION 2- HAZARDOUS IDENTIFICATION

This product contains crystalline silica, a substance that has been listed by:

☑ 1. IARC: sufficient evidence for the carcinogenicity of crystalline silica to humans. (Group 1)
☑ 2. Canadian WHMIS: D2A - Materials Causing Other Toxic Effects
☑ 3. ACGIH: A2-Suspected Human Carcinogen.
☑ 4. NTP: a substance known to be a human carcinogen.

Special Notes: *** Greater amounts of Quartz and Cristobalite may be formed after firing.

Precautionary Statements:
P260+P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P280 - Wear eye protection/face protection
P285 - Wear respiratory protection
P305+P351+P338 - If in eyes: Rinse cautiously with water.
P302+P352 - If on skin: Wash with plenty of soap and water.
P501- Dispose of material in accordance with local regulation.

Primary Route of Entry: Inhalation, Ingestion, Skin Contact

Target Organs: respiratory tract (nose & throat), eyes, skin

Potential Health Effects:

Eyes: May cause irritation. Abrasive action of dust can damage eye.

Skin: May cause irritation

Ingestion: May cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting, abdominal pain and diarrhea.

Inhalation: Effects of overexposure:
1. Acute: Exposure to nuisance dust may cause temporary irritation or discomfort to skin, eyes, nose, throat or lungs and may aggravate bronchial disorders.
2. Chronic: Long term inhalation of respirable quartz, cristobalite, fused silica and/or amorphous silica may cause silicosis (delayed lung injury) and other respiratory disorders. In addition there is sufficient evidence for the carcinogenicity of crystalline silica to humans.
SECTION 3- HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients (checked)</th>
<th>C.A.S. No.</th>
<th>Weight %</th>
<th>TLV ACGIH mg/m³</th>
<th>OSHA PEL mg/m³</th>
<th>EINECS</th>
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</thead>
<tbody>
<tr>
<td>X Quartz***</td>
<td>14808-60-7</td>
<td>29.08</td>
<td>0.025(resp.dust)</td>
<td>10 mg/m³ %SiO₂+2 (resp)</td>
<td>238-878-4</td>
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<tr>
<td>X Cristobalite***</td>
<td>14464-46-1</td>
<td>7.79</td>
<td>0.025(resp.dust)</td>
<td>1/2 (10 mg/m³ %SiO₂+2 (resp))</td>
<td>238-455-4</td>
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<tr>
<td>X Amorphous Silica***</td>
<td>69012-64-2</td>
<td>3.8</td>
<td>0.025(resp.dust)</td>
<td>Not Established</td>
<td>273-761-1</td>
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<tr>
<td>X Fused Silica***</td>
<td>60676-86-0</td>
<td>0.025(resp.dust)</td>
<td>80 mg/m³ %SiO₂</td>
<td>262-373-8</td>
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<tr>
<td>X Zirconium Silicate***</td>
<td>14940-68-2</td>
<td>10</td>
<td>15(total), 5(resp.)</td>
<td>239-019-6</td>
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<tr>
<td>X Aluminum Phosphate</td>
<td>13530-50-2</td>
<td>-</td>
<td>2 mg/m³ TWA(as Al)</td>
<td>2 mg/m³ TWA(as Al)</td>
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<tr>
<td>X Alumina</td>
<td>1344-28-1</td>
<td>-</td>
<td>1(resp.dust)</td>
<td>15(total), 5(resp.)</td>
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<tr>
<td>X Aluminosilicate(Mullite)</td>
<td>1302-93-8</td>
<td>57. - 67.</td>
<td>2(resp.dust)</td>
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<td>X Aluminosilicate(Kyanite)</td>
<td>1302-76-7</td>
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<tr>
<td>X Bauxite</td>
<td>1318-16-7</td>
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<td>X Silicon Carbide</td>
<td>409-21-2</td>
<td>-</td>
<td>10</td>
<td>15(total), 5(resp.)</td>
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<tr>
<td>X Pyrophyllite</td>
<td>12269-78-2</td>
<td>-</td>
<td>10</td>
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<tr>
<td>X Spinel</td>
<td>1302-67-6</td>
<td>-</td>
<td>10</td>
<td>15(total), 5(resp.)</td>
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<tr>
<td>X Andalusite</td>
<td>12183-80-1</td>
<td>5.3 - 15.</td>
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<tr>
<td>X Zirconiumdioxide</td>
<td>1314-23-4</td>
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<td>15(total), 5(resp.)</td>
<td>215-227-2</td>
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<tr>
<td>X Calcium Aluminate Cement</td>
<td>65997-16-2</td>
<td>4.5 - 14.</td>
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<td>15(total), 5(resp.)</td>
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<tr>
<td>X Calcium Silicate Cement</td>
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<td>15(total), 5(resp.)</td>
<td>266-043-4</td>
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<td>X Clay</td>
<td>1332-58-7</td>
<td>1.0 - 8.5</td>
<td>2(resp.dust)</td>
<td>15(total), 5(resp.)</td>
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<td>X Aluminum Sulfate</td>
<td>10043-01-3</td>
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<td>2(resp.dust)</td>
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<td>233-135-0</td>
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<td>X Barium Sulfate</td>
<td>772-74-37</td>
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<td>231-784-4</td>
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<tr>
<td>X Bentonite</td>
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<td>215-108-5</td>
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<td>X Perlite</td>
<td>93763-70-3</td>
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<td>310-127-6</td>
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<tr>
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<td>X Organic Fiber</td>
<td>9003-07-0</td>
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<td>10(total), 3(resp.)</td>
<td>15(total), 5(resp.)</td>
<td>215-691-6</td>
</tr>
</tbody>
</table>

SECTION 4- FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water and get medical attention.
Skin: Wash with soap and water. Get medical attention if irritation develops or persists.
Ingestion: If swallowed, seek medical attention.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get immediate attention.
If symptoms persist, seek medical attention.

SECTION 5- FIRE FIGHTING MEASURES

Unusual Fire and Explosive Hazards: The product will not burn. Improper mixing and bake-out of materials may result in steam spalling during initial heating. Refer to mixing instructions and bake-out schedules for proper procedures.
Fire Fighting Equipment: Fire fighters should wear full protective gear and self-contained breathing apparatus-SCBA.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Wear protective clothing as described in Section 8 of this sheet. Use routine housekeeping procedures, avoid dusting, collect material in closed containers or bags.
Waste Disposal Method: According to the EPA (40CFR 261.3) wastes are not hazardous wastes. Wastes may be disposed of in a landfill, however, in accordance with federal, state, and local regulations.

SECTION 7 - HANDLING AND STORAGE

To ensure product quality, store material in a dry place. Minimize dust generation and avoid inhalation and contact with refractory dusts during processing, installation, maintenance and tear-out. After handling of refractory dusts from processing, installation, maintenance or tear-out, wash exposed skin areas thoroughly. Wash clothing contaminated with dusts.
Waste Disposal Method: According to the EPA (40CFR261.3) wastes are not hazardous wastes. Wastes may be disposed of in a landfill, however, in accordance with federal, state, and local regulations. However, dusts generated during maintenance and tear-out operations may be contaminated with other hazardous substances (e.g. metals). Therefore, appropriate waste analysis may be necessary to determine proper disposal. Waste characterization and disposal/treatment methods should be determined by a qualified environmental professional in accordance with applicable federal, state and local regulations.
SECTION 14 - TRANSPORT INFORMATION

Canadian Transportation of Dangerous Goods Regulation: Hazard Class & PIN: Not Regulated
DOT Proper Shipping Name (29 CFR 172.101): Not regulated
DOT Hazard Class (29 CFR 172.101): Not regulated
UN/NA Code (49 CFR 172.101): Not applicable
DOT Labels Required (49 CFR 172.101): Not applicable
DOT Placards Required (49 CFR 172.504): Not applicable
Land Transport ADR/RID (cross-border): Not regulated
Maritime Transport IMDG: Not regulated
Air Transport ICAO-TI and IATA-DGR: Not regulated

SECTION 15 - REGULATORY INFORMATION

CANADIAN WHMIS: D2A
CANADIAN EPA: Components of this product are listed on the Domestic Substance List (DSL).
U.S. FEDERAL REGULATIONS:
SARA TITLE III: EPCRA Section 302 (EHSs):
This product does not contain ingredients subject to reporting requirements of 40 CFR Part 355, Appendices A and B (Extremely Hazardous Substances).
CERCLA Section 304:
This product does not contain ingredients subject to state and local reporting under Section 304 of SARA Title III as listed in 40 CFR Part 302, Table 302.4
SECTION 311/312 HAZARD CATEGORIES:
Product (airborne particulates) is categorized as an immediate (acute) health hazard and a delayed (chronic) health hazard as defined by SARA Title III Section 311/312 (40 CFR 370).
SECTION 313 TOXIC CHEMICALS: None
TSCA: Components of this product are listed on the TSCA Inventory.

SECTION 16 - OTHER INFORMATION

Only Trained personnel should use this material.

Abbreviations:
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service
CERCLA: Comprehensive Environmental Response, Compensation and Liability Act
DOT: Department of Transportation
EPA: Environmental Protection Agency
IARC: International Agency for Research on Cancer
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
SARA: Superfund Amendment and Reauthorization Act
WHMIS: Workplace Hazardous Materials Information System (Canada)

DISCLAIMER
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