Section 1: Identification

PRODUCT IDENTIFIER:  Alumina powder

CHEMICAL FAMILY:  Abrasive

EMERGENCY PHONE:  CHEMTREC 800-424-9300 (US) Day or night

Customer No. 16568

MANUFACTURER:  PACE Technologies
3601 E. 34th St., Tucson, AZ 85718
Tucson, Arizona USA
Phone: +1 520-882-6598
FAX: +1 520-882-6598

Section 2: Hazard(s) Identification

<table>
<thead>
<tr>
<th>GHS CLASSIFICATION:</th>
<th>Not a hazardous substance or mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>PICTOGRAM(s):</td>
<td>N/A</td>
</tr>
<tr>
<td>SIGNAL WORD:</td>
<td>N/A</td>
</tr>
<tr>
<td>HAZARD STATEMENTS:</td>
<td>N/A</td>
</tr>
<tr>
<td>PRECAUTIONARY</td>
<td>P261-Avoid breathing dust.</td>
</tr>
<tr>
<td>STATEMENTS:</td>
<td>P264-Wash hands thoroughly after handling.</td>
</tr>
<tr>
<td></td>
<td>P337-P313-IF eye irritation persists: Get medical advice/attention.</td>
</tr>
<tr>
<td></td>
<td>P501- Dispose of contents/container to Federal, State and Local Regulations</td>
</tr>
</tbody>
</table>

Section 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>APPROX %</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide</td>
<td>&gt;90</td>
<td>1344-28-1</td>
</tr>
</tbody>
</table>
Section 4: First-Aid Measures

**EYES:** Irrigate with large amounts of water; obtain medical assistance, if needed.

**SKIN:** Wash with soap and water; obtain medical assistance, if needed.

**INHALATION:** No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

**INGESTION:** If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**NOTES TO PHYSICIAN:** Not applicable.

Section 5: Fire-Fighting Measures

**FLASH POINT (TEST METHODS):** Not applicable

**FLAMMABILITY LIMITS IN AIR, % BY VOLUME:**
- LEL: N/A
- UEL: N/A

**EXTINGUISHING MEDIA:** Not applicable

**SPECIAL FIRE FIGHTING PROCEDURES:** Not applicable. Use NIOSH/MSHA approved SCBA and full protective equipment

Section 6: Accidental Release Measures

**ACCIDENTAL RELEASE MEASURES:** Not applicable

Section 7: Handling and Storage
NORMAL STORAGE AND HANDLING: Handle with adequate ventilation for nuisance dust. See OSHA 29CFR1910-94 (Ventilation) and 29CFR1910-1000 (Air Contamination)

NORMAL USE: Same as above

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Normal cleanup procedures. Respirators may be required.

WASTE DISPOSAL METHOD: Standard landfill methods consistent with applicable Federal, State and local law.

Section 8: Exposure Controls/ Personal Protection

RESPIRATORY PROTECTION: As needed, approved dust respirator. See OSHA 29CFR1910-134

VENTILATION: Local: Recommended Mechanical (General): Recommended Other: NAIF

PROTECTIVE GLOVES: As desired by user.

EYE PROTECTION: Recommended. See OSHA 29CFR1910.133

OTHER PROTECTIVE EQUIPMENT: NAIF

MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT See Section VII and VIII

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT</td>
<td>N/A</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>N/A</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (H2O = 1)</td>
<td>N/D</td>
</tr>
<tr>
<td>% VOLATILES BY VOLUME</td>
<td>N/A</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----</td>
</tr>
<tr>
<td>APPEARANCE AND ODOR</td>
<td>Various color depending upon grade</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER (% BY VOLUME)</td>
<td>N/A</td>
</tr>
<tr>
<td>SOLUBILITY IN OTHER SOLVENTS</td>
<td>N/A</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>N/A</td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>N/A</td>
</tr>
<tr>
<td>VAPOR DENSITY</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Section 10: Stability and Reactivity**

**STABILITY:**
Product is stable.

**INCOMPATIBILITY (CONDITIONS TO AVOID):**
Inert

**DECOMPOSITION PRODUCTS:**
Inert

**HAZARDOUS POLYMERIZATION**
Will not occur.

**CONDITIONS TO AVOID**
Inert

**Section 11: Toxicological Information**

**INHALATION:**
Alumina dust may irritate throat and respiratory system, may cause coughing..

**SKIN CONTACT:**
Alumina dust may irritate skin.

**EYE CONTACT:**
Alumina dust may cause irritation.
Potential Health Effects:

LOCAL EFFECTS:                         N/A
SENSITIZATION:                           N/A
CHRONIC TOXICITY:                        N/A
LONG TERM TOXICITY:                     N/A
SPECIFIC EFFECTS:                       N/A

Section 12: Ecological Information

MOBILITY:                                 Not relevant
PERSISTENCE/DEGRADABILITY:                Not relevant
BIACCUMULATION:                          Not relevant
ECO-TOXICITY:                             This product is not expected to be toxic to the environment. Adopt sound working practices so that the product is not released into the environment.

Section 13: Disposal Considerations

Disposed of in accordance with appropriate government regulation.

Section 14: Transportation Information

DOT (CFR49):                                NOT REGULATED.
Section 15: Regulatory Information


CERCLA-SARA HAZARD CATEGORY: This product has been reviewed, and is considered, under applicable definitions, to meet the following categories: NONE

SARA SECTION 313: This production contains the following substances subject to the reporting requirements of Section313 and 40 CFR part 372: NONE

TOXIC CONTROL SUBSTANCES CONTROL ACT: The chemical substances in this product are on the TSCA Section 8 Inventory: NO COMPONENTS FOUND.

NEW JERSEY RIGHT-TO-KNOW: The following materials are non-hazardous, but are among the top five component in this product:

Chemical Name: fillers and backing (non-hazardous)
CAS No.: none – mix

PENNSYLVANIA The following non-hazardous ingredients are
RIGHT-TO-KNOW: present in the product at greater than 3%:
   Chemical Name: fillers and backing (non-hazardous)
   CAS No.: none – mix

CALRONIA PROPOSITION 65: No Proposition 65 chemicals known to exist in this product.

VOLATILE ORGANIC COMPOUNDS (VOCs): 0 grams/liter

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings. CANADIAN WHMIS CLASS: NONE

COMPONENT RCRA CLASSIFICATIONS: Not regulated

COMPONENT RCRA CODES: No information

CERCLA RQ VALUE (MINIMUM): None known

Section 16: Other Information

16.1 NFPA 704

Top, Flammability: 0 – Minimal Hazard
Left, Health Hazard: 1 – Slight Hazard
Right, Reactivity: 0 – Minimal Hazard
Bottom, Special Notice: N/A

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DATE REVISED: 6/7/2018 AG