Aluminum Oxide 0144 RevB
Materials Safety Data Sheet

SECTION I – General Information
Manufacturer’s Name: Danville Engineering
2021 Omega Road
San Ramon, CA 94583
Telephone: (925) 838-7940
Company Contact: Compliance Manager
Date (Revised) October 21, 1996
Product/Trade Name: Fused Aluminum Oxide
Synonyms: Alpha Alumina
Chemical Family: Refractory Oxide
Formula: Al₂O₃

SECTION II – Hazardous Components
None

SECTION III – Physical Data
Melting Temperature: 3700 Degrees F (2038 degrees C)
Specific Gravity: 3.97 gm/cc
Hardness: 9 Mohs scale; 2100 Knoop Scale
Water Solubility: Insoluble in water and organic solvents
pH: 7-8
Color: Light brown or white
Odor: None, odorless

SECTION IV – Fire & Explosion Data
Non-flammable; does not support combustion. Not an explosion hazard.

SECTION V – Health Data

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>C.A.S. NO</th>
<th>Percent</th>
<th>TWA Mg/M3</th>
<th>PEL Mg/M3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpha Alumina (Al₂O₃)</td>
<td>1344-28-1</td>
<td>99+%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Dust</td>
<td></td>
<td>10(e)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Respirable Fraction</td>
<td></td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

Source of Exposure Limit Data
ACGIH Threshold Limit Values; OSHA Tables: Z-1-A, Z-2, Z-3
Possible effects of Overexposure: Individuals with lung disorders should not be exposed to conditions where large airborne quantities of the nuisance dust exist without precautions taken to alleviate the aggravated preexisting medical condition.

Inhalation: Choking sensation, respiratory system passageways irritation.
Skin Contact: No evidence of adverse effects expected.
Eye Contact: May cause Irritation.
Swallowing: Non-toxic. May cause irritation of the throat and digestive passageways.
Carcinogen: No evidence of carcinogenicity.

SECTION VI – Reactivity Data
None with water, air, heat, or strong oxidizers.

SECTION VII – Environmental
Waste may be considered as inert material.

SECTION VIII – Handling, Storage, Transportation
Stable under normal conditions of use, transportation, and storage.
Spill, leak and disposal: Avoid dust during cleanup.

SECTION IX – Special Precautions
Use with adequate ventilation to meet exposure limits. When exposure is excessive, NIOSH approved respiratory protection should be used.