Aluminum Oxide 0144 RevB **Materials Safety Data Sheet**

SECTION I – General Information

Danville Engineering Manufacturer's Name:

> 2021 Omega Road San Ramon, CA 94583

(925) 838-7940 Telephone: Company Contact:

Compliance Manager October 21, 1996 Date (Revised)

Fused Aluminum Oxide

Product/Trade Name: Synonyms: Alpha Alumina Chemical Family: Refractory Oxide

Formula: A12O3

SECTION II – Hazardous Components

SECTION III - Physical Data

Melting Temperature: 3700 Degrees F (2038 degrees C)

Specific Gravity: 3.97 gm/cc

9 Mohs scale; 2100 Knoop Scale Hardness: Water Solubility: Insoluble in water and organic solvents

рН:

Color: Light brown or white Odor: None, oderless

SECTION IV - Fire & Explosion Data

Non-flammable; does not support combustion. Not an explosion hazard.

SECTION V - Health Data

Chemical Name	C.A.S. NO	Percent	Limits for air contaminants	
			TWA Mg/M3	PEL Mg/M3
Alpha Alumina (Al2O3)	1344-28-1	99+%		
Total Dust			10(e)	15
Respirable Fracation			5	5

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.

No evidence of adverse effects expected. Skin Contact:

Eye Contact: May cause Irritation.

Non-toxic. May cause irritation of the throat and digestive passageways. Swallowing:

No evidence of carcinogenicity. Carcinogen:

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.