

MATERIAL SAFETY DATA SHEET

SECTION I – GENERAL INFORMATION

Manufacturer's Name: Danville Materials
 3420 Fostoria Way Suite A-200
 San Ramon, CA 94583
 Telephone: (925) 973-0710
 Company Contact: Compliance Manager
 Date (Revised): January 20, 2009
 Product/Trade Name: Fused Aluminum Oxide
 Synonyms: Alpha Alumina
 Chemical Family: Refractory Oxide
 Formula: Al_2O_3

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

CHEMICAL NAME	C.A.S. NO	PERCENT	LIMITS FOR AIR CONTAMINANTS	
			TWA Mg/M^3	PEL Mg/M^3
Alpha Alumina (Al_2O_3)	1344-28-1	99+%		
Total Dust			10(e)	15
Respirable Fraction			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.
 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.

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