

# MATERIAL SAFETY DATA SHEET

## SECTION I - GENERAL INFORMATION

Manufacturer's Name: Danville Materials  
3420 Fosteria Way Suite A-200  
San Ramon, CA 94583  
(925) 973-0710  
Telephone: Compliance Manager  
Company Contact: 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	LIMITS FOR AIR CONTAMINANTS	
		PERCENT	PEL Mg/M <sup>3</sup>
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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