

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.

THE DATA AND INFORMATION GIVEN IN THIS MATERIAL SAFETY DATA SHEET ARE ACCURATE ON THE DATE OF PREPARATION. IT DOES NOT INDICATE ANY WARRANTY OR REPRESENTATION. WE DISCLAIM ALL LIABILITY RELATING TO USE OF THIS MATERIAL SINCE THIS IS BEYOND OUR CONTROL.