

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

072364123

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

072364099

## Danville Materials, Inc.

Fused Aluminum Oxide



### SECTION 1 : Chemical Product and Company Identification

**MSDS Name:** Fused Aluminum Oxide

For information in North America, call: (925) 973-0710

**Manufacturer MSDS Revision Date:**

January 20, 2009

REV.: D

**Trade Names:**

Fused Aluminum Oxide

**Synonyms:**

Alpha Alumina

**Chemical Family:** Refractory Oxide

**Chemical Formula:** Al<sub>2</sub>O<sub>3</sub>



TOP

### SECTION 2 : Hazardous Ingredients/Identity Information

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**Hazardous Paragraph:**

None



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### SECTION 3 : Physical And Chemical Characteristics

**Color:**

Light brown or white

**Odor:**

None, odorless

**pH:**

7-8

**Melting Point:**

3700 deg F (2038 deg C)

**Solubility:**

Water: Insoluble in water and organic solvents

**Specific Gravity:**

3.97 Gm/cc

Hardness: 9 Mohs scale; 2100 Knoop Scale



## SECTION 4 : Fire And Explosion Hazards

**Fire:**

Non-flammable; does not support combustion.

**Explosion:**

Not an explosion hazard.



## SECTION 5 : Health Hazards

**Applies to All Ingredients:**

**Potential Health Effects:**

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.

**Eye Contact:**

May Cause irritation.

**Skin Contact:**

No evidence of adverse effects expected.

**Inhalation:**

Choking sensation, respiratory system passageways irritation.

**Swallow:**

Non-Toxic. May cause irritation of the throat and digestive passageways.

**Carcinogenicity:**

No evidence of carcinogenicity.

CHEMICAL NAME: Alpha Alumina (Al<sub>2</sub>O<sub>3</sub>)

C.A.S. NO: 1344-28-1

PERCENT: 99+%

LIMITS FOR AIR CONTAMINANTS:

TWA: 10(e) Mg/M<sup>3</sup> Total Dust

PEL: 15 Mg/M<sup>3</sup> Total Dust

TWA: 5 Mg/M<sup>3</sup> Respirable Fracation

PEL: 5 Mg/M<sup>3</sup> Respirable Fracation

Source of Exposure Limit Data:  
ACGIH Threshold Limit Values  
OSHA Tables: Z-1-A, Z-2, Z-3



## SECTION 6 : Emergency And First Aid Procedures

TOP



## SECTION 7 : Reactivity Data

TOP

### Chemical Stability:

Stable under normal conditions of use, transportation, and storage.

### Reactivity:

None with water, air, heat, or strong oxidizers.



## SECTION 8 : Precautions For Safe Handling

TOP

### Spill Cleanup Measures:

Avoid dust during cleanup.

### Handling:

Stable under normal conditions of use, transportation, and storage.

### Ecological Paragraph:

Waste may be considered as inert material.



## SECTION 9 : Control Measures

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### Ventilation System:

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

### Exposure Limits:

CHEMICAL NAME: Alpha Alumina (Al<sub>2</sub>O<sub>3</sub>)  
C.A.S. NO: 1344-28-1  
PERCENT: 99+%  
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Source of Exposure Limit Data:  
ACGIH Threshold Limit Values  
OSHA Tables: Z-1-A, Z-2, Z-3



## SECTION 10 : Other Information

**MSDS Revision Date:**

January 20, 2009  
REV.: D

**Disclaimer:**

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## MATERIAL SAFETY DATA SHEET

### SECTION 1 - GENERAL, INFORMATION

Manufacturer: Danville Materials Inc.  
3420 Fostoria Way #A-200  
San Ramon, CA 94583  
Telephone: (925) 973-0710  
Date (revised): December 10, 2010  
Product/Trade Name: SA-85, Alumina Abrasive  
Chemical Name: Alumina

### SECTION 2 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White or off-white, crystalline powder  
Freeze-melt point: 3700 F (2038 C)  
Solubility in water: Insoluble; soluble in concentrated acids and alkalis  
Specific gravity: 2.4 - 3.9  
Density: 8-80lb/ft (0.13 - 1.28 g/cm)  
Odor: None, odorless

### SECTION 3 - FIRE AND EXPLOSION DATA

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

### SECTION 4 - HEALTH DATA

Aluminum Oxide Exposure Limits: ACGIH TLV 10mg/m<sup>3</sup>,  
OSHA PEL 15, 5mg/m<sup>3</sup>, 64-85% by weight

Alumina is a low health risk by inhalation and should be treated as a nuisance dust as specified by the American Conference of Governmental Industrial Hygienists (ACGIH). Use with adequate ventilation.

#### Potential Health Effects:

Eyes: May cause mechanical irritation. Safety glasses recommended  
Skin: None  
Inhalation: Low health risk by inhalation. Treat as nuisance dust. Use NIOSH-approved dust respirator.

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 pre-existing medical condition.

#### First Aid Measures:

Eyes: Flush eyes with plenty of water for at least 15 minutes.  
Irritation persists, consult physician.  
Inhalation: Remove exposed person to fresh air. Restore and/or support breathing as needed. If irritation results, consult a physician.

### SECTION 5 - REACTIVITY DATA

None with water, air, heat, or strong oxidizers.

### SECTION 6 - ENVIRONMENTAL

Waste may be considered as inert material.

### SECTION 7 - HANDLING, STORAGE, TRANSPORTATION

Stable under normal conditions of use, transportation and storage. A void dust during clean-up. Keep material dry.

### SECTION 8 - 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.**