



GMA Industries  
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P.O. Box 74037  
Romulus, MI 48174-0037

EFFECTIVE DATE: 01-01-2009

## MATERIAL SAFETY DATA SHEET

### I. IDENTIFICATION

Product Name: VWFA

Chemical Name: White Fused Aluminum Oxide

Formula:  $Al_2O_3$

II. INGREDIENTS	CAS NO.	% W	ACGIH TLV	OSHA PEL	CARCINOGENIC
Aluminum Oxide - $Al_2O_3$	1344-28	99.0-99.5	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> Total 5 mg/m <sup>3</sup> Respirable	NO
Impurities, other total oxides (trace amounts)		<1.0			

### III. PHYSICAL DATA

Vapor Pressure (mm Hg):	N/A
Vapor Density (air=1):	N/A
Evaporation Rate:	0
Percent Solid (by weight):	100
Solubility in Water:	Insoluble
Specific Gravity (water=1):	3.94
Percent Volatile (by volume):	0
pH:	Neutral
Appearance and Odor:	White granular, no odor.

### IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint:	None
Extinguishing Media:	N/A
Unusual Fire and Explosion Hazards:	None
Flammable Limits:	None
Specific Fire Fighting Procedures:	None

### V. STABILITY & REACTIVITY DATA

Chemical Stability:	Stable
Hazardous Polymerization:	Will not occur.
Thermal Decomposition	None
Conditions to Avoid:	None



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Incompatibility:	None
Hazardous Decomposition Products:	None
Dangerous Reactions	None

#### VI. POTENTIAL HEALTH EFFECTS

Emergency Overview:	Dust irritating to eyes and respiratory tract.
Eyes:	Mechanical eye irritant, many cause tearing and redness.
Skin:	Mechanical skin irritant, prolonged contact many cause abrasions, redness or itching.
Ingestion:	Many cause nausea and vomiting. No long term effects are anticipated.
Inhalation:	Dust may be slightly irritating to respiratory tract. May cause coughing/shortness of breath.
Target Organs:	Eyes, skin, and respiratory system.
Effects of Exposure:	May include persistent cough or shortness of breath.
Chronic Exposure:	N/A

#### VII. EXPOSURE & PERSONAL CONTROLS

Plant Controls:	Provides sufficient mechanical ventilations to reduce airborne concentrations and minimize exposure. Maintain employee exposure to below applicable permissible limits.
Hygiene Measures :	Do NOT inhale dust/smoke/mist. Avoid contact with eyes or skin. Wash hands before eating.
Sensitization:	N/A
Protection in Workplace:	If concentrations of airborne dust exceed limits listed in Section III, Exposure Limits, follow the OSHA respirator regulations found in 29CFR 1910.134.
Eye Protection:	Avoid eye contact. To minimize the risk of eye injury, always wear appropriate protective glasses or chemical safety goggles.
Skin Protection:	Avoid skin contact. Wear appropriate protective clothing to minimize risk of abrasion or skin irritation.

#### VIII. FIRST AID MEASURES

Eyes:	Flush eyes with large amounts of water. If symptoms persist, seek medical attention.
Skin:	Wash effected area with soap & water. If symptoms persist, seek medical attention.
Inhalation:	Remove affected person to fresh air. If symptoms persist, seek medical attention.
Ingestion:	In the unlikely case of ingestion, leave the decision to induce vomiting to qualified medical personnel so as to avoid aspirating into the lungs. Seek immediate medical attention.



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### IX. FIRE FIGHTING MEASURES

Flammable/Combustible Properties:	None
Extinguishing Media:	Extinguisher suitable for ordinary combustible materials, Class A extinguishing agents.
Special Fire Fighting Procedures:	None

### X. ACCIDENTAL RELEASE MEASURES

Personal Safety Precautions:	Avoid creating dust.
Environmental Precautions:	Ensure that materials are properly disposed of .
Clean-up Measures:	Collect spilled materials by means of vacuuming or sweeping and place in a suitable container.

### XI. HANDLING & STORAGE

Handling:	Avoid contact with eyes or skin. Wash hands before eating. Prevent the formation of dust. Handle with adequate ventilation.
Storage:	Use normal storage practices. Store in original containers in a well ventilated area. Keep containers tightly sealed. Avoid stacking more than two high.

### XII. ACCIDENTAL RELEASE MEASURES

Solid or chemical waste generators must determine if their discarded wastes are classified as a hazardous waste. U.S. EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local waste regulations to ensure complete and accurate classification. Generally speaking, White Fused Aluminum Oxide, in and of itself, has NOT been classified as hazardous. Elements of the work piece being prepared can affect whether the spent oxide is hazardous. Check with your aluminum oxide source for accurate details.

### XIII. TRANSPORTATION INFORMATION

U.S. DOT:	This product is not regulated by U.S. DOT as a hazardous material, no placard is required to move this material.
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### XIV. REGULATORY INFORMATION

TSCA:	Aluminum Oxide is listed on the TSCA inventory under CAS No. 1344-28-1.
RCRA:	Aluminum Oxide is not classified as a hazardous material under RCRA or its regulations, 40 CFR 302.
CERCLA:	Aluminum Oxide is not classified as a hazardous substance under CERCLA regulations, 40 CFR 302.
SARA:	Aluminum Oxide is not extremely hazardous substance in Section 302 and is not a toxic chemical subject to the requirements of 313.



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#### **DISCLAIMER**

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#### **Abbreviations**

CAS No.– Chemical Abstracts Service Registry Number

% W – Percent by weight

ACGIH TLV – American Conference of Governmental Industrial Hygienists Threshold Limit Values

OSHA PEL – Occupational Health and Safety Administration Permissible Exposure Limits

EPA – Environmental Protection Agency

DOT – Department of Transportation

TSCA – Toxic Substances Control Act

RCRA – Resource Conservation and Recovery Act

CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act

SARA – Superfund Amendments and Reauthorization Act

N/A - Not Applicable

N/D - Not Determined