



# Safety Data Sheet

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### 1. IDENTIFICATION

Product: Aluminum Oxide P/N: 960034.901, 900906.901	MSDS #: 901152.001
Product Use: For laboratory use only.	Date: Rev K, January 2, 2013

### 3. HAZARDS IDENTIFICATION:

Not classified as hazardous per GHS; not listed in Table 3.1 Annex VI of regulation 1272/2008/EU, as amended. The product is not hazardous in the form in which it is placed on the market and under the normal and recommended conditions of storage and use. The product is not dangerous according to the criteria set by the European Union (EU).

The small quantities supplied in our products are unlikely to cause severe or immediate health effects. Use only as directed and in accordance with safe laboratory practices.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS:

CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% by Weight	EXPOSURE LIMITS		
				OSHA	ACGIH	EU IOELV
Aluminum oxide	1344-28-1	215-691-6	>99	15 mg/m <sup>3</sup> Total PNOR 5 mg/m <sup>3</sup> Respirable PNOR	10 mg/m <sup>3</sup> Inhalable particles: PNOS	NA

Notes: Product is provided in a vial containing 1.75 grams of aluminum oxide powder, for use as a spacer.  
 PNOR: Particulates not otherwise regulated. PNOS: Particles Not Otherwise Specified  
 Exposure Limits are 8-Hour TWA. (Time Weighted Average) unless designated C (Ceiling) or STEL (Short Term Exposure Limit).

### 4. FIRST AID MEASURES:

Inhalation: Remove to fresh air.  
 Skin Contact: Flush with water.  
 Eye Contact: Immediately flush with water for a minimum of 15 minutes.  
 Ingestion: Get medical attention.

After following first aid measures, seek medical attention.

### 5. FIRE-FIGHTING MEASURES:

Flammable Properties: Not flammable.  
 Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.  
 Unique Aspects Contributing To a Fire: None.  
 Special Fire Fighting Procedures: None.  
 Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES: Due to small quantities involved, spills or leaks should not pose a significant problem. Sweep up and place wastes into closed containers for proper disposal.

7. HANDLING AND STORAGE: Handle as directed and in accordance with safe laboratory practices.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Handle in accordance with safe laboratory practices.

Respiratory Protection: Not normally needed. If exposure limits are exceeded, use approved particulate respirator.  
 Eye Protection: Safety glasses with side protection.  
 Skin Protection: No special requirements. Disposable nitrile are acceptable for light intermittent exposure.  
 Engineering Controls: No special requirements.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance: White powder

Physical State: Solid	Flash Point: NA	Vapor Pressure: 1 mm Hg at 2158 °C
Odor: None	Explosion Limits: NA	Vapor Density (air=1): NA
pH: NA	Boiling Point: 5396 °F (2977 °C)	Solubility in Water: Insoluble
Specific Gravity: 2.67 – 3.86 g/ml	Melting Point: 3762 °F (2050 °C)	Other: Very hygroscopic

**10. STABILITY AND REACTIVITY:**Hazardous Polymerization  Will Not Occur  May Occur

Stability: Stable

**Hazardous Decomposition/Combustion Products:**

Aluminum oxide.

**Conditions & Materials to Avoid:**

Oxidizing agents, acids.

**11. TOXICOLOGICAL INFORMATION:**

Primary Route(s) of Exposure under Normal Use: Inhalation

Target Organ(s): NA

Acute Effects: NA

Chronic Effects: NA

Other Information: Chemical Ingredient(s) not classified as carcinogen(s) by OSHA, IARC, NTP, ACGIH, or California.

**12. ECOLOGICAL INFORMATION: NA****13. DISPOSAL CONSIDERATIONS:** Consult state, local or national regulations for proper disposal. The U.S. Environmental Protection Agency (EPA) does not classify unused product as hazardous waste.**14. TRANSPORT INFORMATION:** Not Dangerous Goods. Not Regulated.IATA/ICAO: Shipping Name: NA

Hazard Class: NA

UN/NA #: NA

Packing Group #: NA

IMDG: NA

ADR: NA

**15. REGULATORY INFORMATION:**U.S. TOSCA: ListedCanada: This product has been classified according to the hazard criteria of the Controlled Product Registration (CPR) and this SDS contains all the information required by the CPR.**16. OTHER INFORMATION:**U.S. EPA

## National Fire Protection Association Rating

<u>SARA 313 Chemicals</u>	<u>CERCLA RQ</u>	4=Severe Hazard	<u>HEALTH</u>	NA
None	None	3=Serious Hazard	<u>FLAMMABILITY</u>	NA
		2=Moderate Hazard	<u>REACTIVITY</u>	NA
		1=Slight Hazard	<u>OTHER</u>	NA
		0=Minimal Hazard		

Notes, abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 EC: European Commission  
 EU IOELV: European Union Indicative Occupational Exposure Limit Values

GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
 IATA: International Air Transport Association  
 IMDG: International Maritime Code for Dangerous Goods  
 NA: Not Available.  
 OSHA: Occupational Safety and Health Administration

For laboratory use only. Not for drug, household or other uses.

The information contained herein has been compiled from data presented in various technical sources believed to be accurate. Waters makes no warranties and assumes no liability in connection with the use of this information. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary precautions.

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