



# SAFETY DATA SHEET

**MATERION**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>Identification of the substance/preparation</b>	<b>Aluminum Oxide Product</b>		
<b>Version No.</b>	01		
<b>Issue date</b>	01-June-2015		
<b>SDS Number</b>	62		
<b>Manufacturer information</b>	Materion Advanced Materials Group 42 Mt. Ebo Road South Brewster, NY 10509		
	United States		
	Supplier Phone	1+845.279.0900	
	Chemtrec	1+703.527.3887	

## 2. HAZARDS IDENTIFICATION

<b>Physical hazards</b>	Not classified as a physical hazard.
<b>Health hazards</b>	Not classified as a health hazard.
<b>Environmental hazards</b>	Not classified as an environmental hazard.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Components</b>	<b>CAS #</b>	<b>Percent</b>	<b>EC-No.</b>	<b>Classification</b>
Aluminium oxide	1344-28-1	99,9 - 100	215-691-6	

## 4. FIRST-AID MEASURES

## 5. FIRE-FIGHTING MEASURES

## 6. ACCIDENTAL RELEASE MEASURES

## 7. HANDLING AND STORAGE

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

<b>Material</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Aluminum Oxide Product	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Aluminium oxide (CAS 1344-28-1)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

### Recommended monitoring procedures

**Additional exposure data** Not available.

### Personal protective equipment

**Skin and body protection** Not available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

<b>Physical state</b>	Solid.
<b>Form</b>	Not available.
<b>Colour</b>	Not available.

**Odour** Not applicable.

**Odour threshold** Not available.

**pH** Not available.

<b>Boiling point</b>	2980 °C (5396 °F) estimated 2980 °C (5396 °F)
<b>Flash point</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapour pressure</b>	< 0,0000001 kPa at 25 °C 0,00001 hPa estimated
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Insoluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Melting point/freezing point</b>	2000 °C (3632 °F) estimated 2000 °C (3632 °F)
<b>Auto-ignition temperature</b>	Not applicable.
<b>VOC</b>	Not available.
<b>Molecular weight</b>	101,94 g/mol
<b>Molecular formula</b>	Al <sub>2</sub> O <sub>3</sub>
<b>Other data</b>	
<b>Density</b>	4,00 g/cm <sup>3</sup> estimated 4,00 g/cm <sup>3</sup> estimated at 20 °C
<b>Specific gravity</b>	4 estimated 4 at 20 °C

## 10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Not available.
<b>Hazardous decomposition products</b>	Not available.

## 11. TOXICOLOGICAL INFORMATION

## 12. ECOLOGICAL INFORMATION

## 13. DISPOSAL CONSIDERATIONS

## 14. TRANSPORT INFORMATION

### ADR

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

## 15. REGULATORY INFORMATION

### Labeling

<b>Contains</b>	Aluminium oxide
<b>EC number</b>	215-691-6
<b>R-phrases(s)</b>	None.
<b>S-phrases(s)</b>	None.

## 16. OTHER INFORMATION