

## **SAFETY DATA SHEET**

Creation Date 29-Sep-2009 Revision Date 10-Nov-2014 Revision Number 1

1. Identification

Product Name Alumina (Activated/Adsorption/Dry

Powder/Acid/Basic/Neutral/Polishing Gamal)

Cat No.: A446-100, A447-500, A505-212, A540-3, A540-500, A591-3, A591-500,

A620-500, A634-3, A941-500, A948-500, A950-500, B365-250, C218-3,

P467R, P477, S716842

Synonyms Aluminum oxide; Alundum; morin dyed

**Recommended Use** Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Emergency Telephone Number

Fisher Scientific CHEMTREC®, Inside the USA: 800-424-9300
One Reagent Lane CHEMTREC®, Outside the USA: 001-703-527-3887
Fair Lawn, NJ 07410

Tel: (201) 796-7100

## 2. Hazard(s) identification

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

### Label Elements

None required

### Hazards not otherwise classified (HNOC)

None identified

## 3. Composition / information on ingredients

Component	CAS-No	Weight %
Aluminum oxide	1344-28-1	100

## 4. First-aid measures

# Alumina (Activated/Adsorption/Dry Powder/Acid/Basic/Neutral/Polishing Gamal)

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

**Ingestion** Do not induce vomiting. Obtain medical attention.

Most important symptoms/effectsNo information available.Notes to PhysicianTreat symptomatically

## 5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point Not applicable

Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

### **Hazardous Combustion Products**

None known

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
1	0	1	N/A

## 6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

**Environmental Precautions** See Section 12 for additional ecological information.

**Methods for Containment and Clean** Sweep up and shovel into suitable containers for disposal. Avoid dust formation. **Up** 

	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls / personal protection

**Exposure Guidelines**This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum oxide	TWA: 1 mg/m <sup>3</sup>	(Vacated) TWA: 10 mg/m <sup>3</sup>	
		(Vacated) TWA: 5 mg/m <sup>3</sup>	
		TWA: 15 mg/m <sup>3</sup>	
		TWA: 5 mg/m <sup>3</sup>	

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV	
Aluminum oxide	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

Personal Protective Equipment

**Eye/face Protection**Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Physical StateSolidAppearanceWhiteOdorOdorless

Odor Threshold<br/>pHNo information available<br/>No information availableMelting Point/Range2000 °C / 3632 °FBoiling Point/Range2980 °C / 5396 °F

Flash Point Not applicable Evaporation Rate No information

Evaporation Rate No information available Flammability (solid,gas) No information available

Flammability or explosive limits

UpperNo data availableLowerNo data available

Vapor Pressure negligible

Vapor Density No information available

Relative Density

Solubility

Partition coefficient; n-octanol/water

Autoignition Temperature

Decomposition Temperature

Viscosity

4.0 (H2O=1)

Insoluble in water

No data available

No information available

No information available

No information available

Molecular Formula Al2O3 Molecular Weight 101.96

## 10. Stability and reactivity

Reactive Hazard None known, based on information available

# Alumina (Activated/Adsorption/Dry Powder/Acid/Basic/Neutral/Polishing Gamal)

**Stability** Stable under normal conditions. Hygroscopic.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

## 11. Toxicological information

### **Acute Toxicity**

**Component Information** 

Component	ponent LD50 Oral LD50 Dermal		LC50 Inhalation
Aluminum oxide	> 5000 mg/kg (Rat)	Not listed	> 2.3 mg/l 4 h
	(OECD Guideline 401)		(OECD Guideline 403)

**Toxicologically Synergistic** 

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

	Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Ī	Aluminum oxide	1344-28-1	Not listed				

Mutagenic Effects No information available

**Reproductive Effects** No information available.

**Developmental Effects**No information available.

**Teratogenicity** No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

140 illiolillation available

No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

**Ecotoxicity** 

Do not empty into drains.

Persistence and Degradability
Bioaccumulation/ Accumulation

No information available
No information available.

**Mobility** No information available.

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated
DOT TDG IATA	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Aluminum oxide	Х	Χ	1	215-691-6	-		Χ	Χ	Χ	Х	Х

#### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

TSCA 12(b)

Not applicable

SARA 313 Not applicable

Component	CAS-No	Weight %	SARA 313 - Threshold
Component	CAS-NO	weight %	Values %
Aluminum oxide	1344-28-1	100	1.0

### SARA 311/312 Hazardous Categorization

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act Not applicable

Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration

Not applicable

**CERCLA** 

Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

Compor	nent	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Aluminum	oxide	X	X	X	-	X

### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

## Other International Regulations

Mexico - Grade No information available

### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class Non-controlled

	16. Other information
Prepared By	Regulatory Affairs

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Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

## **Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**