

## SAFETY DATA SHEET

Creation Date 09-Jul-2014

Revision Date 09-Jul-2014

**Revision Number 1** 

### 1. Identification

**Product Name** 

Aluminium oxide, activated, neutral

Cat No. :

AC366680000; AC366680010; AC366680025; AC366680050;

AC366680250

Synonyms

Alumina

**Recommended Use** 

Laboratory chemicals.

Uses advised against

No Information available

Details of the supplier of the safety data sheet

Company Fisher Scientific One Reagent Lane

Fair Lawn, NJ 07410 Tel: (201) 796-7100

**Entity / Business Name** 

Acros Organics One Reagent Lane Fair Lawn, NJ 07410 **Emergency Telephone Number** 

For information US call: 001-800-ACROS-01

/ Europe call: +32 14 57 52 11

Emergency Number US:001-201-796-7100 /

Europe: +32 14 57 52 99

CHEMTREC Tel. No.US:001-800-424-9300 /

Europe:001-703-527-3887

# 2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Specific target organ toxicity - (repeated exposure)

Category 2

Target Organs - Lungs.

Label Elements

Signal Word Warning

**Hazard Statements** 

May cause damage to organs through prolonged or repeated exposure



**Precautionary Statements** Prevention

Do not get in eyes, on skin, or on clothing

Response

Get medical attention/advice if you feel unwell

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

## 3. Composition / information on ingredients

Component	CAS-No	Weight %
Aluminum oxide	1344-28-1	98-100

### 4. First-aid measures

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. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects

Notes to Physician

No information available. Treat symptomatically

No information available

## 5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Unsuitable Extinguishing Media No information available

No information and include

Flash Point No information available No information available

Autoignition Temperature

**Explosion Limits** 

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

Non-combustible. None reasonably foreseeable.

#### **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

6. Accidental release measures

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

Avoid contact with skin, eyes and clothing.

Environmental Precautions Avoid release to the environment.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust

Up formation. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

## 8. Exposure controls / personal protection

#### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum oxide	TWA: 1 mg/m³	(Vacated) TWA: 10 mg/m³ (Vacated) TWA: 5 mg/m³ TWA: 15 mg/m³ TWA: 5 mg/m³	

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 State Powder Solid
Appearance Off-white
Odor Odorless

Odor ThresholdNo information availablepH6.5-7.5 at 100 g/L waterMelting Point/Range2050 °C / 3722 °F

Boiling Point/Range 2980 °C / 5396 °F @ 760 mmHg

Flash Point

Evaporation Rate
Flammability (solid,gas)

No information available
No information available
No information available

Flammability or explosive limits

Upper Lower

Vapor Pressure Vapor Density Relative Density Solubility

Partition coefficient; n-octanol/water

Autoignition Temperature Decomposition Temperature

Viscosity

Molecular Formula Molecular Weight No data available No data available

negligible

No information available No information available Insoluble in water No data available No information available

No information available No information available

Al2 O3 101.96

## 10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability

Hygroscopic.

**Conditions to Avoid** 

Avoid dust formation. Incompatible products. Exposure to moisture.

Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases, Fluorine

Hazardous Decomposition Products None under normal use conditions

**Hazardous Polymerization** 

No information available.

**Hazardous Reactions** 

None under normal processing.

## 11. Toxicological information

#### **Acute Toxicity**

#### **Product Information**

Component Information

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

Toxicologically Synergistic

No information available

**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
Aluminum oxide	1344-28-1	Not listed				

**Mutagenic Effects** 

Not mutagenic in AMES Test

Reproductive Effects

No information available.

**Developmental Effects** 

No information available.

Teratogenicity

No information available.

STOT - single exposure

None known

STOT - repeated exposure

Lungs

Aspiration hazard

No information available

Symptoms / effects, both acute and No information available

delayed

**Endocrine Disruptor Information** 

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information.

## 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
TDG	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
1	Aluminum oxide	X	X		215-691-6	-		X	Х	X	· X	X

### 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** 

Component	CAS-No	Weight %	SARA 313 - Threshold
			Values %
Aluminum oxide	1344-28-1	98-100	1.0

SARA 311/312 Hazardous Categorization

**Acute Health Hazard** No **Chronic Health Hazard** Yes 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

Component	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

D2B Toxic materials



**Revision Summary** 

### 16. Other Information

**Prepared By** Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

**Creation Date** 09-Jul-2014 **Revision Date** 09-Jul-2014

09-Jul-2014 **Print Date** 

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**