

## SAFETY DATA SHEET

Issuing Date 01-Mar-2017

Revision Date 06-Jul-2018

**Revision Number 2** 

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

Product identifier

**Product Name** 

MicroPolish & MicroPolish II Alumina Powder

Product Code(s)

 $4010075;\,4010076;\,4010077;\,4010078;\,4010079;\,4010080;\,406321016;\,406321080;$ 

406322016; 406323016; 406323080

(M)SDS Number

1341982\_A

Other means of identification

**Synonyms** 

None

Recommended use of the chemical and restrictions on use

Recommended Use

Laboratory Use Only

Uses advised against

No information available

Details of the supplier of the safety data sheet

Manufacturer

Buehler

**Manufacturer Address** 

41 Waukegan Rd Lake Bluff, IL 60044 www.buehler.com

Phone number

+1 847 295 6500

E-mail Address

custserv@buehler.com

Emergency telephone number

Global Access Code: 334545 Americas: +1 760 476 3962

Middle East/Africa: +1 760 476 3959

Asia Pacific: +1 760 476 3960 Europe: +1 760 476 3961

#### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

**Emergency Overview** 

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The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance White

Physical state Powder(s)

Odor Odorless

Precautionary Statements - Prevention

Obtain special instructions before use

Precautionary Statements - Response

None

Precautionary Statements - Storage

None

Precautionary Statements - Disposal

None

Hazards not otherwise classified (HNOC)

Not applicable

Other information

No information available

Interactions with Other Chemicals

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight-%	Trade Secret
Aluminum oxide	1344-28-1	> 99%	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

### First aid measures

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a

physician.

Skin contact

Wash with soap and water.

Inhalation

Remove to fresh air.

Ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an

unconscious person.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and

Effects

No information available.



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### Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

**Explosion Data** 

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

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.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation.

**Environmental precautions** 

**Environmental precautions** 

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage

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

Incompatible Products

None known based on information supplied.



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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum oxide 1344-28-1	TWA: 1 mg/m³ respirable particulate matter	TWA: 15 mg/m³ total dustTWA: 5 mg/m³ respirable fraction	
		(vacated) TWA: 10 mg/m³ total dust(vacated) TWA: 5 mg/m³	
		respirablefraction	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

#### Appropriate engineering controls

**Engineering Measures** 

Showers

Eyewash stations Ventilation systems

### Individual protection measures, such as personal protective equipment

Eye/face protection

No special protective equipment required.

Skin and body protection

No special protective equipment required.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical and Chemical Properties**

Physical state

Powder(s)

**Appearance** 

No information available

Odor **Odor Threshold**  Odorless

No information available

**Property** 

Color

Melting / freezing point Boiling point / boiling range

Flash Point **Evaporation Rate** Flammability (solid, gas) **Values** 

No data available 2050°C / 3722°F No data available No data available No data available

No data available

Remarks Method

None known None known None known None known None known None known

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None known

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Flammability Limit in Air

Upper flammability limit
Lower flammability limit
Vapor pressure
Vapor density
Specific Gravity
Water Solubility

No data available
No data available
No data available
No data available
Insoluble

Solubility in other solvents
Partition coefficient: n-octanol/waterNo data available
Autoignition temperature
Decomposition temperature
Kinematic viscosity
No data available
Dynamic viscosity
No data available
No data available

Explosive properties

Oxidizing properties

No data available
No data available

**Other Information** 

Softening Point
VOC Content (%)
Particle Size

No data available
No data available
No data available

Particle Size Distribution

### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None known based on information supplied.

<u>Incompatible materials</u>

None known based on information supplied.

**Hazardous Decomposition Products** 

None known based on information supplied.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Product Information Specific test data for the substance or mixture is not available.

**Inhalation** Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.



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#### Component Information

Chemical name	LD50 Oral	LD50 Dermal	Inhalation LC50
Aluminum oxide	> 5000 mg/kg ( Rat )		
1344-28-1			

#### Information on toxicological effects

**Symptoms** 

No information available.

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

Sensitization

No information available.

**Mutagenic Effects** 

No information available.

Carcinogenicity

Contains no ingredient listed as a carcinogen.

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Target Organ Effects

Eyes. Respiratory system. Skin. Lungs.

**Aspiration Hazard** 

No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document Not applicable

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

#### Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information available

### Other adverse effects

No information available.



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### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging** 

Dispose of contents/containers in accordance with local regulations.

### 14. TRANSPORT INFORMATION

DOT

NOT REGULATED

**Proper Shipping Name** 

**Hazard Class** 

NON REGULATED

N/A

TDG

**NOT REGULATED** 

MEX

NOT REGULATED

ICAO

NOT REGULATED

IATA

**NOT REGULATED** 

**Proper Shipping Name** 

NON REGULATED

<u>IMDG</u>

**NOT REGULATED** 

**RID** 

**NOT REGULATED** 

<u>ADR</u>

**NOT REGULATED** 

ADN

**NOT REGULATED** 

### 15. REGULATORY INFORMATION

#### International Inventories

**TSCA** 

DSL

All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS-No	Weight-%	SARA 313 - Threshold Values %



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Aluminum oxide - 1344-28-1	1344-28-1	> 99%	1.0%
SARA 311/312 Hazard Categories	•		
Acute Health Hazard	No		
Chronic Health Hazard	No		
Fire Hazard	No		
Sudden release of pressure hazard	No		
Reactive Hazard	No		

**CWA (Clean Water Act)** 

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Aluminum oxide	X	X	X	Х	
1344-28-1					

#### International Regulations

### Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Aluminum oxide		Mexico: TWA= 10 mg/m <sup>3</sup>
1344-28-1 ( > 99% )		

Mexico - Occupational Exposure Limits - Carcinogens

#### Canada

#### **WHMIS Hazard Class**

Not determined

16. OTHER INFORMATION					
NFPA	Health Hazards 0	Flammability 0	Instability 0	Physical and Chemical Hazards -	

HMIS Health Hazards 0 Flammability 0 Physical Hazard 0 Personal Protection

Prepared By Product Stewardship
23 British American Blvd.

Latham, NY 12110 1-800-572-6501

Issuing Date 01-Mar-2017 Revision Date 06-Jul-2018

Revision Note No information available

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#### Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text



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**End of Safety Data Sheet** 



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