SAFETY DATA SHEET

Version: 1.0 Date: August 2026

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878, and United States Regulation 29 CFR 1910

Section 1: Identification		
1.1	Product identifier Product Name	**Alumina**
	Product Code	Alumina
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Identified Use(s)	Gas-phase air filtration
	Uses Advised Against	Do not use for applications other than those specified.
1.3	Company Identification Details of the supplier of the safety data sheet	**Pure Air Filtration, LLC** 6050 Peachtree Parkway Suite 240-187 Atlanta, GA 30092 USA
	Telephone	+1 (678) 935-1431; Office Hours are Monday through Friday, 8:00AM to 5:00PM Eastern Standard Time
	Fax	+1 (678) 935-0648
	E-Mail	info@pureairfiltration.com
1.4	Emergency telephone number	**VelocityEHS** 1-800-255-3924 (United States, Canada, Puerto Rico, U.S. Virgin Islands) +1-813-248-0585 (International, collect calls are accepted) 1-300-954-583 (Australia) 0-800-591-6042 (Brazil) 400-120-0751 (China) 000-800-100-4086 (India) 800-099-0731 (Mexico) *The line is available 24 hours; in the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.*
	Language(s) spoken:	English

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Section 2: Hazard(s) Identification

2.1
Classification of the substance or mixture GHS-US and Regulation (EC) No. 1272/2008 (CLP) and most important hazards

This material is not classified as hazardous under Regulation (EC) No. 1272/2008 (CLP) or the OSHA Hazard Communication Standard (29 CFR 1910.1200).

2.2

Label Element:	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name:	Alumina
Contains:	Aluminum Oxide

Hazard Pictograms(s) **None**

Signal Word(s) None
Hazard Statements None

Precautionary Statements None
Supplemental Information None

2.3
Hazards not otherwise classified (HNOC) or not covered by GHS
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Section 3: Composition/ Information on Ingredients

Chemical Name	%W/W	CAS No.	EC No.	Hazard Statement(s)
Aluminum oxide	50-100	1344-28-1	215-691-6	Not Classified

Section 4: First-Aid Measures

4.1
Description of first aid measures
No special measures are required.

IF ON SKIN (or hair): Generally the product does not irritate the skin.
IF IN EYES: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do.
IF INHALED: Supply fresh air; consult doctor in case of complaints.
IF SWALLOWED: If symptoms persist consult doctor.

4.2
Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3
Indication of any immediate medical attention and special treatment needed
No further relevant information available.

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Section 5: Fire-Fighting Measures

5.1
Suitable extinguishing media
As appropriate for surrounding fire.

Unsuitable extinguishing media
None other known.
5.2
Special Hazards arising from the substance or mixture
The material is not combustible. No further relevant information available.
5.3
Advice for firefighters
No special measures required.

Section 6: Accidental Release

6.1
Personal precautions, Protective Equipment, and Emergency Procedures
Not required.

6.2
Environmental precautions
No special measures required.

6.3
Methods and material for containment and cleaning up
Pick up mechanically.

6.4
Reference to other sections
See also Section 8, 13

Section 7: Handling and Storage

7.1
Precautions for safe handling
No special measures required.

7.2
Conditions for safe storage, including any incompatibilities.
No special requirements.

7.3
Specific end use(s)
No further relevant information available.

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Section 8: Exposure Controls / Personal Protection

8.1
Control Parameters
Related to Substance – Aluminum Oxide
OSHA PEL: 15 mg/m3 (8hr TWA) as Total dust; 5 mg/m3 (8hr TWA) as Respirable dust
ACGIH TLV (2024): 1 mg/m³ TWA respirable dust.

Biological Limit Value
None Known.

PNECs and DNELs
Not Applicable.

8.2
Exposure Controls
Appropriate Engineering Controls
No further data, see Section 7.

8.3
Environmental Exposure Controls
No special requirements.

8.4
Personal Protection Equipment (PPE)
The usual precautionary measures for handling chemicals should be followed.

Eye / Face Protection	Hand & Skin Protection	Respiratory Protection
Not Required.	Wear suitable gloves.	Not required.

Section 9: Physical and Chemical Properties

9.1
Basic physical and chemical properties

Physical state:	Solid white spherical pellets
Color:	White
Odor threshold:	Not applicable- material is odorless.
Melting point/melting range	Not applicable
Boiling point/boiling range:	Not applicable
Evaporation rate:	Not applicable
Flammability:	Not flammable
Lower and upper explosion limits:	Not explosive.
Flash point:	Not applicable
Auto ignition temperature:	Not available
Decomposition temperature:	Not available
pH:	Not available
Kinematic viscosity:	Not applicable
Solubility:	Not soluble in water
Partition coefficient n-octanol/water (log value):	Not applicable
Vapor pressure:	Not available – solid
Vapor density:	Not applicable
Bulk density:	~ 40 lbs./ft^3, 640 kg/m^3
Relative density:	Not available
Particle Characteristics:	Median Particle Diameter 4mm

9.2
Other Information
Oxidizing Properties: Not applicable.

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Section 10: Stability and Reactivity

10.1
Reactivity
No further relevant information available.

10.2
Chemical stability
Stable under normal conditions

10.3
Possibility of hazardous reactions
No dangerous reactions known.

10.4
Conditions to avoid
No further relevant information available.

10.5
Incompatible materials
No further relevant information available.

10.6
Hazardous decomposition products
No dangerous decomposition products known.

Section 11: Toxicological Information

11.1
Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity – Ingestion	Based on available data, the classification criteria are not met.
Acute toxicity – Inhalation	Based on available data, the classification criteria are not met.
Acute toxicity – Skin contact	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	None
Serious eye damage/irritation	None
Respiratory or skin sensitization	None
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT – single exposure	Based on available data, the classification criteria are not met.
STOT – repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Not relevant

11.2
Numerical toxicity values for hazardous ingredients

Aluminum oxide (Al_2O_3) (CAS 1344-28-1):
LD50 oral (rat) > 5,000 mg/kg
LC50 inhalation (rat, 4-hr) > 2.3 mg/L
LD50 dermal > 2,000 mg/kg

11.3
Carcinogen listing status
Aluminum oxide — NTP: Not listed. IARC: Not listed. OSHA: Not regulated as a carcinogen.

11.4
Information on other hazards
Endocrine disrupting properties: No substances identified as having endocrine-disrupting properties.
Other information: None

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Section 12: Ecological Information

12.1
Toxicity
No further relevant information available.

12.2
Persistence and degradability
No further relevant information available.

12.3
Bioaccumulation
No further relevant information available.

12.4
Mobility in soil
No further relevant information available.

12.5
Results of PBT and vPvB Assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6
Endocrine Disrupting Properties
No substances identified as having endocrine-disrupting properties.

12.7
Other Adverse Effects
Not hazardous for water.

Section 13: Disposal Considerations

Waste Disposal Methods
Waste disposal should be in accordance with existing federal, state, and local environmental control regulations.
Smaller quantities can be disposed of with household waste.

Section 14: Transport Information

14.1
Transportation Information

	ADR/RID/DOT	IMDG	IATA/ICAO
UN Number or ID Number	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	Not assigned	Not assigned	Not assigned
Transport Hazard Class(es)	None	None	None
Packing Group	None	None	None
Environmental Hazards	No	No	No
Special Precautions for User	No	No	No

14.2
Maritime transport in bulk according to IMO instruments
No information available.

14.3
Additional information
Not applicable.

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Section 15: Regulatory Information

15.1
Safety, health and environmental regulations/legislation specific for the substance or mixture.
No further relevant information available.

National Regulations
United States: National Inventory TSCA: Aluminum Oxide is listed as active.
EPCRA Section 313: Aluminum oxide is listed.

USA State Regulations
Air Act Section 112b; Cal. Proposition 65- None of the ingredients are listed.

EU Regulations
Authorizations and/or Restrictions on Use
Not restricted for the intended use(s) of the product.

CoRAP Substance Evaluation
Not applicable.

15.2
Chemical Safety Assessment
A chemical safety assessment is not required under REACH.

Section 16: Other Information

The following sections contain revisions or new statements: Updated substance / mixture classification. New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

References: Existing Safety Data Sheet (SDS) Substance with harmonized classification and labelling according to Regulation (EC) No. 1272/2008, Annex VI.

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Date of last revision: 2026-08-25

16.1
Full list of H Statements
None.

16.2
LEGEND for acronyms used in this SDS / MSDS

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CoRAP	Community Rolling Action Plan
DNEL	Derived no effect level
EC50	Half maximal effective concentration
ECHA	European Chemicals Agency
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long term exposure limit
NMFC	National Motor Freight Classification
NIOSH	National Institute for Occupational Safety and Health
OEL	Occupational exposure limits
PBT	Persistent, Bio accumulative and Toxic
PEL	Permissible Exposure Limit
PNEC	Predicted No Effect Concentration

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PNOR	Particulates Not Otherwise Regulated
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
RID	Regulations concerning the international railway transport of dangerous goods STEL Short term exposure limit
RoC	Report on Carcinogens
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time-Weighted Average
vPvB	very Persistent and very bioaccumulative.

Training advice:
Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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