

Trade Name: Tabular Alumina

1 IDENTIFICATION

Product Identifier:	Tabular Alumina	
Synonyms:	Tabular Al ₂ O ₃	
CAS No. / EC No.:	1344-28-1 / 215-691-6	
Recommended Use:	Product is intended for use in ceramics applications, investment casting, and as a refractory material.	
Use(s) Advised Against:	Contact manufacturer if using product outside of recommended use cases.	
Manufacturer/Supplier:	GNPGraystar 37 John Glenn Dr. Amherst, NY 14228 Ph: 716-759-6600	GNPGraystar 9 Simmonsville Road Bluffton, SC 29910 Ph: 843-815-5600
Emergency Telephone No.:	CHEMTREC (US): 1-800-424-9300 All other regions contact your local poison control center or local chemical authority.	

2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:

Classification has been determined in accordance with United States OSHA HCS (29 CFR 1910.1200) requirements and any corresponding Globally Harmonized System (GHS) classification parameters.

Additional Information: No additional information available at time of document authoring.

LABEL ELEMENTS

GHS Label Elements Product has been determined not to be hazardous per GHS standards.

Pictograms: None

Signal Word: None

Hazard-determining components of labeling: See Section 3 for more information.

Hazard Statements: N/A

Precautionary Statements: N/A

HMIS Ratings (scale 0-4):

Health:	0
Fire:	0
Reactivity:	0
PPE:	

NFPA Ratings (scale 0-4):

Health:	0
Fire:	0
Reactivity:	0
Specific Hazard:	

Legend

4 - Extreme
3 - Serious
2 - Moderate
1 - Slight
0 - Minimal

** Indicates a long term health hazard from repeated or prolonged exposures*

Other Hazards:

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: Substance

Identifier	Chemical Name/Description	GHS Hazard(s)	Wt. %
CAS No.: 1344-28-1 EC No.: 215-691-6	Aluminum Oxide, Al ₂ O ₃	N/A	> 99

Exact chemical identifier(s) or percentage(s) may vary on a batch-by-batch basis. Product may contain hazardous chemicals below reportable concentrations as byproducts or contaminants.

4 FIRST AID MEASURES

General Information: Seek medical advice if symptoms occur after exposure.

After inhalation: Supply fresh air. Get medical help if symptoms occur.

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After contact with eyes:	Irrigate with large quantities of water for at least 10 minutes. Remove contact lenses if present and easy to do so. Seek medical help if persistent irritation or tissue damage occur.
After skin contact:	Wash thoroughly with soap and water. Seek medical advice if any symptoms occur.
After swallowing:	If swallowed, rinse mouth with plenty of water if affected person is fully conscious. Do not give anything by mouth or induce vomiting in an unconscious person. Seek medical advice.

Key symptoms and effects, both acute and delayed:	Intense coughing, gastric or intestinal disorders, breathing difficulty
Indication(s) of need for immediate medical help:	Any indication of tissue damage, respiratory distress, or distress of the digestive system from exposure.

5 FIREFIGHTING MEASURES

Flash point: N/A	UEL: N/A	LEL: N/A
Auto-ignition temperature:	N/A	

Extinguishing media:	Use any suitable media for the environment in which the fire or conflagration is taking place. Be mindful of any surrounding flammable/combustible materials.
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Hazardous decomposition products:	None anticipated.
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Firefighting instructions:	Firefighters and other involved individuals should wear self-contained breathing apparatuses and be aware of any other flammable/combustible substances involved in the fire.
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6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:	No special measures required. Per general best practices: wear protective clothing, ensure adequate ventilation, avoid dust formation, use respiratory protective devices when anticipating fumes or dusts, and avoid contact with the eyes and skin where possible.
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Environmental precautions:	Per best general practices, prevent material from entering drains or water courses. Do not allow to enter soil.
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Methods and material for containment and cleanup:	Avoid formation of dust. Pick up mechanically. Ensure adequate ventilation. Store in suitable receptacles for recovery or disposal. Verify compliance with local regulations for waste disposal.
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Other information:	See Section 7 for additional information on safe handling. See Section 8 for additional information on personal protective equipment. See Section 13 for additional information on disposal.
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7 HANDLING AND STORAGE

Precautions for safe handling:	Wear protective clothing. Prevent formation of dust. Any deposit of dust which cannot be avoided must be regularly removed. Provide suction extractors if dust is formed. Handle only in well-ventilated areas. Avoid product contact with the eyes or skin. Wash hands and face after handling.
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Information about protection against explosions and fires:	No special measures required.
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Requirements for storerooms and receptacles:

Storage should occur in cool, dry, well-ventilated areas.

Information regarding storage in common storage facility:

Store away from strong acids and oxidizing agents.

Further information about storage conditions:

Store receptable well-sealed in a well-ventilated area: material is hygroscopic and should be protects from humidity and water.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Applicable component occupational exposure limits requiring monitoring at the workplace:

Aluminum Oxide, Al₂O₃ (CAS# 1344-28-1)

OSHA PEL, TWA (8-hr): 15 mg/m³ (total), 5 mg/m³ (respirable)

ACGIH TLV, TWA (8-hr): 1 mg/m³ (respirable particulate matter)

California: CAL/OSHA PEL, TWA (8-hr): 10 mg/m³ (total), 5 mg/m³ (respirable)

Additional limit information:

No additional information available at time of document authoring.

Engineering controls:

Ensure good ventilation in the workplace.

Risk management:

No special measures required.

PERSONAL PROTECTIVE EQUIPMENT

Breathing equipment:

Use suitable respiratory protective devices when high dust levels present.

Hand protection:

Wear protective gloves to ensure against mechanical hazards.

Eye protection:

Wear safety glasses or goggles to protect against eye exposure.

Body protection:

Wear general protective work clothing.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Granules or Powder

Color:

White to Light Gray

Odor:

Odorless

Odor threshold:

N/A

pH:

Slightly alkaline (suspension in water)

Melting/Freezing point:

3722°F (2050°C)

Initial boiling point:

N/A

Boiling point range:

N/A

Flash point:

N/A

Flammability:

Product is not flammable

Upper explosive limit:

N/A

Lower explosive limit:

N/A

Auto-ignition temperature:

N/A

Evaporation rate:

N/A

Vapor pressure:

N/A

Vapor density:

N/A

Relative density:

3.55, Water = 1.00 at 68°F (20°C)

Water solubility:

Insoluble

Partition coefficient:

No data available

Kinematic viscosity:

No data available

Particle characteristics:

Granule and Powder size: various

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10 STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided:	No decomposition anticipated under standard use, transport and storage conditions. May separate into individual components under extreme heat.
Hazardous reaction potential:	No hazardous reactions anticipated.
Incompatible materials:	Reacts with strong acids, oxidizing agents, and strong bases.
Hazardous decomposition products:	May produce metal oxide smoke in the event of fire.
Other Information:	No additional information available at time of document authoring.

11 TOXICOLOGICAL INFORMATION

Component LC₅₀/LD₅₀ values relevant for classification:	None
Probable routes of exposure:	Dust inhalation, accidental ingestion, direct skin/eye contact
Effects on skin:	No relevant effects known
Effects on eye:	Slight irritation may occur with direct eye contact.
Inhalation effects:	Repeated or long-term inhalation of dusts may cause pulmonary disease.
Ingestion effects:	No relevant effects known
Sensitization effects:	No relevant effects known
Subacute/chronic toxicity:	No relevant effects known
Carcinogenicity:	
NTP Listing Status:	Not listed as a carcinogen
IARC Listing Status:	Not listed as a carcinogen
OSHA Listing Status:	Not listed as a carcinogen
Cell mutagenicity:	No relevant effects known
Reproductive effects:	No relevant effects known

12 ECOLOGICAL INFORMATION

Aquatic toxicity:	Product not determined to be toxic to the aquatic environment.
Persistence and degradability:	Inorganic product, not eliminable from water by biological means.
Results of PBT assessment:	No data available
Results of vPvB assessment:	No data available
LogK_{ow} , BCF values:	No data available
Bioaccumulative potential:	No significant accumulation in organisms.
Mobility in soil:	No relevant information available at time of document authoring.
Other adverse effects:	No relevant information available at time of document authoring.
Additional information:	No relevant information available at time of document authoring.

13 DISPOSAL CONSIDERATION

Waste treatment methods:	Do not dispose of product via sewage system or other liquid waste streams. Contact your local waste disposal authority to determine necessary steps for disposal in your locality.
Contaminated packaging:	Contact your local waste disposal authority to determine necessary steps for disposal in your locality.
Additional information:	Refer to Section 8 for exposure controls, personal protective equipment

14 TRANSPORT INFORMATION

DOT (US)	Not regulated for transport
IMDG/IMO	Not regulated for transport
IATA	Not regulated for transport

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General Information: No additional information.

15 REGULATORY INFORMATION

SARA 355 Components: Not listed

SARA 313 Components: Not listed

TSCA listing status: Listed

Determinations of carcinogenic status:

California Prop. 65: Not listed as a carcinogen or reproductive toxin

EPA: Not listed as a carcinogen

IARC: Not listed as a carcinogen

ACGIH: Not listed as a carcinogen

NIOSH: Not listed as a carcinogen

State right-to-know listings: New Jersey: Aluminum Oxide (CAS# 1344-28-1)
 New York City: Aluminum Oxide (CAS# 1344-28-1)
 Rhode Island: Aluminum Oxide (CAS# 1344-28-1)

Information pertaining to Canadian regulations:

Canadian Domestic Substances List: Listed

Other regulations, limitations, and prohibitive regulations:

This product has been classified in accordance with hazard criteria of the Hazardous Products Regulations, SOR/2015-17.

16 OTHER INFORMATION

All information provided is based on GNPGraystar's present knowledge and understanding of this product and any applicable regulations and data. Any information provided does not constitute a guarantee for specific product features nor does it establish a legally valid contractual relationship.

Abbreviations and acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
DOT (US)	Department of Transportation (United States)
EPA	Environmental Protection Agency (United States)
HMIS	Hazardous Materials Identification System (United States)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG/IMO	International Maritime Dangerous Goods/International Maritime Organization
NFPA	National Fire Protection Association (United States)
NIOSH	National Institute for Occupational Safety and Health (United States)
NTP	National Toxicology Program (United States)
OSHA	Occupational Safety and Health Administration (United States)
PEL	Permissible Exposure Limit
SARA	Superfund Amendment and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time-Weighted Average

NOTICE: This safety data sheet complements technical data sheets but does not replace them. The information contained within is based on our present knowledge of the product on the document revision date. All information provided is done so in good faith. Product users should be warned about the risks

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associated with using the product for a different purpose than that for which it was intended as stated within this safety data sheet and any associated technical data sheets. GNPGraystar does not provide advice or indicate qualification for giving advice for uses outside of stated intended use cases. Statements regarding applicable regulations are provided to help users meet their regulatory obligations when using this product. Statements are not exhaustive of all potential regulatory parameters a user may be bound by and does not exempt users from ensuring their own compliance with applicable regulations regarding handling, use, and storage of the product, for which they are solely responsible.

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