

**Trade Name: White Aluminum Oxide** 

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1. IDENTIFICATION	
Product Identifier	White Aluminum Oxide / White Fused Aluminum Oxide

**CAS Number:** 1344-28-1

**Recommended Use:** Abrasives, Refractories, Ceramics

Restrictions on Use: Contact manufacturer

Manufacturer/Supplier: GNPGraystar GNPGraystar

37 John Glenn Dr. 9 Simmonsville Road Amherst, NY 14228 Bluffton, SC 29910

**Emergency telephone number:** 716-759-6600 843-815-5600

### 2. HAZARD(S) IDENTIFICATIONS

Classifications of the substance or mixture:

The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

Additional Information: Not hazardous as delivered. Long term inhalation of product

dusts formed during use is harmful. There are no other hazards not otherwise classified that have been identified. Zero percent of

the mixture consists of ingredient(s) of unknown toxicity.

**Label Elements** 

GHS Label Elements: The product is NOT classified as hazardous according to OSHA

Globally Harmonized System (GHS) regulations within the United

States

Signal Word: NOT REGULATED

Hazard-determining components of labeling:

None

Hazard Statements: Not Regulated

Precautionary Statement: Not Regulated

**Hazard Description:** 

WHMIS- Symbols: Not hazardous under WHMIS

**Classification System:** 



NFPA Ratings (scale 0-4)

Health = 0 Fire = 0

Reactivity = 0

HMIS-Ratings (scale 0 - 4):



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HMIS Ratings (scale 0-4) Health = 0 Fire = 0

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

Reactivity = 0

Other Hazards:

Results of PBT and vPvB Assessment

**PBT:** Not applicable **vPvB:** Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: Substances

CAS No.: EC No.: Ingredient: Weight %

1344-28-1 215-691-6 Aluminum Oxide > 99

4. FIRST-AID MEASURES

General Information:

After inhalation:

No special measures required

Supply fresh air, consult doctor in case of complaints

Brush off loose particles from skin.

Clean with water and soap

If skin irritation is experienced, consult a doctor.

After eye contact:

Immediately remove contact lenses if possible.

Rinse opened eye for several minutes under running water.

If symptoms persist, consult a doctor.

After swallowing: Rinse out mouth and then drink plenty of water. Do not

induce vomiting; immediately call for medical help.

Most important symptoms and Coughing

effects, both acute and delayed: Gastric or intestinal disorders

Breathing difficulty

**Danger:** Danger of impaired breathing.

Indication of any immediate medical attention and special treatment needed

No further relevant information available

5. FIRE-FIGHTING MEASURES

FLASH POINT: Not Applicable

FLAMMABLE LIMITS: LEL: Not Applicable UEL: Not Applicable

**AUTO IGNITION TEMPERATURES:** Not Applicable



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**EXTINGUISHING MEDIA:** Use media appropriate for surrounding fire

FIRE AND EXPLOSION HAZARDS: Non-flammable, non-combustible. Product will not burn.

HAZARDOUS DECOMPOSITION PRODUCTS: None

Wear self-containing respiratory protective device. Wear FIRE FIGHTING INSTRUCTIONS:

fully protective suit.

Health: 1 Flammability: 0 Reactivity: 0 NFPA CLASSIFICATION:

6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective** 

**Equipment & Emergency** 

**Procedures:** 

Avoid formation of dust. Ensure adequate ventilation.

For large spills, wear protective clothing.

For large spills, use respiratory protective device against the

effects of fumes/dust/aerosol.

**Environmental Precautions:** No special measures required.

**Methods and Material for** 

**Containment and Cleaning Up:** 

Dispose contaminated materials as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

Reference to other sections: See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information

7. HANDLING AND STORAGE

Prevent formation of dust. **Precautions for Safe Handling:** 

Any deposit of dust which cannot be avoided must be regularly

removed.

Do not dry clean dust covered objects and floors. Wash

thoroughly with plenty of water.

Use only in well ventilated areas. Avoid breathing dust.

Information about protection against explosions and fires: No special measures required

Conditions for safe storage, including incompatibilities:

Requirements to be met by

storerooms and receptacles:

Information about storage in one

common storage facility:

**Further information about** storage conditions:

No special requirements

Store away from oxidizing agents

Store in cool, dry conditions in well-sealed receptacles

Store receptacle in a well-ventilated area

Protect from humidity and water This product is hygroscopic

Specific End Use(s):. No further information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical system: No further data, see item 7



**Physical state** 

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Control Parameters Components with limit values that requ	uire monitoring at the workplace:
1344-28-1 aluminum oxide	•
PEL (USA)	Long-term value: 15*; 15** mg/m³ *Total dust; ** Respirabl fraction
REL (USA)	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m³ as Al; *as respirable fraction
EL (Canada)	Long-term value: 1.0 mg/m³ respirable, as Al
EV (Canada)	Long-term value: 10 mg/m³ total dust
Additional Information:	The lists that were valid during the creation were used as basis
<b>Exposure Controls:</b>	
Personal Protective Equipment:	
General Protective and Hygienic Measures:	The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid close or long-term contact with the skin. Do not inhale dust / smoke / mist.
Engineering Controls:	No further relevant information available
Breathing Equipment:	Use suitable respiratory protective device in case of insufficient ventilation. For spills, respiratory protection mabe advisable.
Protection of Hands:	Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules. Gloves are advised for repeated or prolonged contact. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Material of Gloves:	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Eye Protection:	Safety Glasses
Body Protection:	Not required under normal conditions of use. Protection may be required for spills
Risk Management Measures:	No special requirements.
. PHYSICAL AND CHEMICAL PROI	PERTIES

Granulate, Powder



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Color	White, Light Grey
Odor	Odorless
Order threshold	Not determined
рН	Slightly alkaline
Melting/Freezing point	2050 °C (3722 °F)
Initial Boiling point/Boiling Range	Undetermined
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Product is not flammable
Upper/Lower flammability explosive limit	Not determined
Vapor Pressure	Not applicable
Vapor density	Not applicable
Density at 20 °C (68 °F):	3.95 g/cm <sup>3</sup> (32.963 lbs./gal)
Solubility	Insoluble
Partition coefficient	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity - Dynamic	Not applicable
Viscosity - Kinematic	Not applicable
Formula	Al <sub>2</sub> O <sub>3</sub>
10. STABILITY AND REACTIVITY	
Thermal Decomposition / Conditions to be Avoided:	No decomposition if used and stored according to specifications
Conditions to be Avoided:  Possibility of Hazardous	specifications  Reacts with strong acids. Reacts with oxidizing agents.
Conditions to be Avoided:  Possibility of Hazardous Reactions:	specifications  Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.
Conditions to be Avoided:  Possibility of Hazardous Reactions:  Incompatible Materials:	specifications  Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.  No further relevant information available
Conditions to be Avoided:  Possibility of Hazardous Reactions:  Incompatible Materials:  Hazardous Decomposition:	specifications  Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.  No further relevant information available
Conditions to be Avoided:  Possibility of Hazardous Reactions:  Incompatible Materials: Hazardous Decomposition:  11. TOXICOLOGICAL INFORMATION	specifications  Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.  No further relevant information available
Conditions to be Avoided:  Possibility of Hazardous Reactions:  Incompatible Materials: Hazardous Decomposition:  11. TOXICOLOGICAL INFORMATION Information on Taxological Effects LD/LC50 values that are relevant for	Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.  No further relevant information available  Toxic metal oxide smoke  None  No irritant effect
Conditions to be Avoided:  Possibility of Hazardous Reactions:  Incompatible Materials: Hazardous Decomposition:  11. TOXICOLOGICAL INFORMATION Information on Taxological Effects LD/LC50 values that are relevant for classification: On the skin: On the eye:	Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.  No further relevant information available  Toxic metal oxide smoke
Conditions to be Avoided:  Possibility of Hazardous Reactions:  Incompatible Materials: Hazardous Decomposition:  11. TOXICOLOGICAL INFORMATION Information on Taxological Effects LD/LC50 values that are relevant for classification: On the skin: On the eye: Sensitization:	specifications  Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.  No further relevant information available  Toxic metal oxide smoke  None  No irritant effect Slight irritant effect on eyes No sensitizing effects known
Conditions to be Avoided:  Possibility of Hazardous Reactions:  Incompatible Materials: Hazardous Decomposition:  11. TOXICOLOGICAL INFORMATION Information on Taxological Effects LD/LC50 values that are relevant for classification: On the skin: On the eye: Sensitization: Subacute to Chronic Toxicity:	specifications  Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.  No further relevant information available  Toxic metal oxide smoke  None  No irritant effect Slight irritant effect on eyes No sensitizing effects known None
Conditions to be Avoided:  Possibility of Hazardous Reactions:  Incompatible Materials: Hazardous Decomposition:  11. TOXICOLOGICAL INFORMATION Information on Taxological Effects LD/LC50 values that are relevant for classification: On the skin: On the eye: Sensitization: Subacute to Chronic Toxicity: NTP (National Toxicology Program)	specifications  Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.  No further relevant information available  Toxic metal oxide smoke  None  No irritant effect Slight irritant effect on eyes No sensitizing effects known None Substance not listed
Conditions to be Avoided:  Possibility of Hazardous Reactions:  Incompatible Materials:  Hazardous Decomposition:  11. TOXICOLOGICAL INFORMATION Information on Taxological Effects LD/LC50 values that are relevant for classification: On the skin: On the eye: Sensitization: Subacute to Chronic Toxicity: NTP (National Toxicology Program) OSHA-Ca (Occupational Safety & Health Administration)	specifications  Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.  No further relevant information available  Toxic metal oxide smoke  None  No irritant effect Slight irritant effect on eyes No sensitizing effects known None
Conditions to be Avoided:  Possibility of Hazardous Reactions:  Incompatible Materials: Hazardous Decomposition:  11. TOXICOLOGICAL INFORMATION Information on Taxological Effects LD/LC50 values that are relevant for classification: On the skin: On the eye: Sensitization: Subacute to Chronic Toxicity: NTP (National Toxicology Program) OSHA-Ca (Occupational Safety &	specifications  Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.  No further relevant information available  Toxic metal oxide smoke  None  No irritant effect Slight irritant effect on eyes No sensitizing effects known None Substance not listed



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Acute Effects (acute toxicity, irritation and corrosivity):	From product as supplied: None
Repeated Dose Toxicity:	Repeated or long-term inhalation of product dusts may cause pulmonary disease.
12. ECOLOGICAL INFORMATION	
Aquatic Toxicity:	Generally, not hazardous for water
Persistence and degradability:	Inorganic product, is not eliminable from water by means of biological cleaning processes.
Other Adverse Effects:	
Bio accumulative Potential:	Does not accumulate in organisms
Mobility in soil:	No further relevant information available.
Other Adverse Effects:	No further relevant information available
13. DISPOSAL CONSIDERATIONS	
Waste Treatment Methods:	Smaller quantities can be disposed of with household waste. Can be reused after reprocessing.  Contact waste processors for recycling information.  The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
Contaminated Packaging:	Disposal must be made according to official regulations.
14. TRANSPORT INFORMATION	
Note: Not classified as a dangerous accord	ing to transport regulations.
DOT (US)	Not regulated
IMDG/IMO	Not regulated
IATA	Not regulated
15. REGULATORY INFORMATION	
SARA 355 Components:	Substance is not listed
SARA 313 Components:	Substance is not listed
TSCA	Substance is listed
California Proposition 65 Chemicals known to cause cancer:	Substance is not listed
Chemicals known to cause reproductive toxicity for females:	ve Substance is not listed



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Chemicals known to cause reproductive toxicity for males:	Substance is not listed
Chemicals known to cause developmental toxicity:	Substance is not listed
Carcinogenic Categories	
EPA (Environmental Protection Agency)	Substance is not listed
IARC (International Agency for Research on Cancer:	Substance is not listed
TLV (Threshold Limit Value established by ACGIH)	1344-28-1 aluminum oxide (A4)
NIOSH (National Institute for Occupational Safety and Health)	Substance is not listed
State to Know Listings	Substance is not listed
Canadian Substance Listings:	
Canadian Domestic Substances List (DSL)	Substance is listed
Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed
Canadian Ingredient Disclosure list (limit 1%)	Substance is listed
Other regulations and limitations and prohibitive regulations	This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the informatior required by the Controlled Products Regulations.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### **Abbreviation and Acronyms:**

16. FURTHER INFORMATION

Abbieviation and Actoriyms.		
ACGIH	American Conference of Governmental Industrial Hygienists	
CAS	Chemical Abstracts Service	
DOT	Department of Transportation	
HMIS	Hazardous Materials Identification System (USA)	
IARC	International Agency for Research on Cancer	
IMDG	International Maritime Dangerous Goods	
NFPA	National Fire Protection Association	
NIOSH	National Institute for Occupational Safety and Health	
NTP	National Toxicology Program	
OSHA	Occupational Safety and Health Administration	
PEL	Permissible Exposure Limit	
SARA	Superfund Amendment and Reauthorization Act	
TLV	Threshold Limit Valve	
TSCA	Toxic Substance Control Act	



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#### NOTICE:

This material safety data sheet complements the technical data sheets but does not replace them. The information it contains is based on our present knowledge of the product on the date indicated. It is given in good faith. Users should be warned about the risks associated with using the product for a different purpose than that for which it was developed, and particularly for uses for which we are not qualified to give advice.

These regulatory prescriptions are provided with a view to helping users meet their obligations when using this product. This list should not be considered exhaustive and does not exempt users from ensuring that they are not required to comply with any further prescriptions other than those mentioned above concerning product possession and handling for which they are solely responsible.