

SAFETY DATA SHEET

Section 1: Identification

1.1 Product identifier

Product Name: **White Aluminum Oxide**
Trade Name: White Fused Aluminum Oxide
CAS Number: 1344-28-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Media for surface treatment, surface preparation and/or cleaning by impact.

1.3 Details of the supplier of the product information

Supplier: Guyson Corporation of U.S.A.
13 Grande Blvd.
Saratoga Springs, NY 12866
www.guyson.com
info@guyson.com

1.4 Telephone number: 518-587-7894

Section 2: Hazard Identification

2.1 Classification of the Substance or Mixture

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

2.2 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. 0 percent of the Mixture consists of ingredient(s) of unknown toxicity

2.3 Label Elements

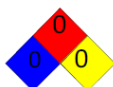
GHS Label Elements:	The product is not classified as hazardous according to OSHA GHS regulations within the United States.
Hazard Pictograms:	Not Regulated
Signal word:	Not Regulated
Hazard-Determining Components of Labeling:	None
Hazard Statements:	Not Regulated
Precautionary Statements:	Not Regulated

2.4 Hazard Description

WHMIS-Symbols: Not Hazardous under WHMIS

2.5 Classification System

NFPA Ratings (Scale 0 - 4)



Health = 0
Fire = 0
Reactivity = 0

HMIS Ratings (Scale 0 - 4)



Section 2: Hazard Identification (continued)**2.6 Other Hazards**

Results of PBT and vPvB assessment:

- **PBT:** Not applicable
- **vPVB:** Not applicable

Section 3: Composition / Information on Ingredients**3.1 Substances**

CAS No. Description
1344-28-1 aluminum oxide

Section 4: First-Aid Measures**4.1 Description of First Aid Measures**

- **General Information:** No special measures required
- **After inhalation:** Ensure sufficient fresh air supply and consult a physician if feeling unwell.
- **After skin contact:** 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.

4.2 Most important symptoms and effects, both acute and delayed

Coughing
Gastric or intestinal disorders
Breathing difficulty

4.3 Danger

Danger of impaired breathing

4.4 Indication of any immediate medical attention and special treatment needed

No further relevant information available

Section 5: Fire-Fighting Measures**5.1 Extinguishing Media**

Suitable extinguishing media agents: Use firefighting measures that suit the environment.
For safety reasons unsuitable extinguishing agents: None

5.2 Special Hazards Arising from the Substance or Mixture

No further relevant information available

5.3 Advice for fire-fighters

Wear self-contained respiratory protective device. Wear fully protective suit.

Section 6: Accidental Release Measures**6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

- Use respiratory protective device against the effects of fumes/dust/aerosol.
- For large spills, wear protective clothing.
- Avoid formation of dust. Ensure adequate ventilation.

6.2 Special Hazards Arising from the Substance or Mixture

No special hazards known.

6.3 Methods and Materials for Containment and Cleaning Up

- Pick up mechanically.
- Send for recovery or disposal in suitable receptacles.
- Dispose contaminated material as waste according to Section 13

6.4 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

Section 7: Handling and Storage**7.1 Precautions for safe handling**

- Prevent formation of dust
- Any deposit of dust which cannot be avoided must be regularly removed.
- Use only in well ventilated areas.
- Avoid breathing dust.
- Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

7.2 Information about Protection against Explosions and Fires

No special measures required

7.3 Conditions for Safe Storage, Including any Incompatibilities**Storage:****Requirements to be met by Storerooms and Receptacles:**

No special requirements.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from foodstuffs

Further Information about Storage Conditions:

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.

7.4 Specific end use(s)

No further relevant information available

Section 8: Exposure Controls / Personal Protection

8.1 Additional Information about Design of Technical Systems:

No further data; see item 7

8.2 Control Parameters:

Components with limit values that require monitoring at the workplace:

1344-28-1 Aluminum Oxide

PEL (USA)	Long-term value: 15*; 15** mg/m3. *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10*5** mg/m3 as Al *Total dust**Respirable/pyro powd./weld 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
LMPE (Mexico)	Long-term value: 1* mg/m3 A4, *fraccion respirable

8.3 Additional Information

The lists that were valid during the creation were used as basis.

8.4 Exposure Controls

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 may be 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 suitable gloves does not only depend on the material, but also on further marks of quality and varies from the manufacturer to manufacturer.

Eye Protection: Safety Glasses



Body Protection: Not required under normal conditions of use. Protection may be required for spills.

Limitation and Supervision of Exposure into the Environment: No special requirements

Risk management Measures: No special requirements

Section 9: Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

Form:	Granulate
Color:	White
Odor:	Odorless
Odor threshold	Not Determined.
pH-Value:	Slightly alkaline
Melting point:	2050 °C (3722 °F)
Boiling point:	Undetermined
Flash point:	Not applicable
Flammability (solid, gaseous)	Product is not flammable
Auto-Ignition temperature:	Not determined
Decomposition temperature	Not determined
Danger of explosion	Product does not present an
Lower explosion limit:	Not determined
Upper explosion limit:	Not determined
Vapor pressure:	Not applicable
Density at 20 °C (68 °F):	3.95 g/cm ³ (32.963 lbs./gal)
Relative density	Not determined
Vapor density	Not applicable
Evaporation rate	Not applicable
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water)	Not determined
Viscosity:	
Dynamic:	Not applicable
Kinematic:	Not applicable

9.2 Other Information

No further relevant information available

Section 10: Stability and Reactivity**10.1 Thermal Decomposition/Conditions to be avoided:**

No decomposition if used and stored according to specifications.

10.2 Possibility of Hazardous Reactions

Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.

10.3 Conditions to avoid

No further relevant information available

10.5 Incompatible Materials

No further relevant information available

10.6 Hazardous Decomposition Products

Toxic metal oxide smoke

Section 11: Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity:

LD/LC50 values that are relevant for classification: None

Primary Irritant Effect:

On the skin: No irritant effect

On the eye: Slight irritant effect on eyes

Sensitization: No sensitizing effects known

11.2 Additional Toxicological Information

Carcinogenic Categories

NTP (National Toxicology Program): Substance not listed

OSHA-CA (Occupational Safety & Health Administration): Substance not listed

Probable Routes of Exposure

Ingestion. Inhalation. Eye contact. Skin contact.

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

Section 12: Ecological Information

12.1 Aquatic Toxicity

Generally not hazardous for water

12.2 Persistence and Degradability

Inorganic product, is not eliminable from water by means of biological cleaning processes

12.3 Bio Accumulative Potential

Does not accumulate in organisms

12.4 Mobility in Soil

No further relevant information available.

12.5 Other Adverse Effects

No further relevant information available

SAFETY DATA SHEET**Section 13: Disposal Considerations****13.1 Waste Treatment Methods:****Recommendation:**

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 waste. Residual materials should be treated as hazardous.

13.2 Uncleaned packagings:**Recommendation:**

Disposal must be made according to official regulations.

Section 14: Transport Information

- 14.1 UN-Number**
DOT, ADR, ADN, IMDG, IATA Not Regulated
- 14.2 UN Proper Shipping Name**
DOT, ADR, ADN, IMDG, IATA Not Regulated
- 14.3 Transport Hazard Class(es)**
DOT, ADR, ADN, IMDG, IATA Not Regulated
- 14.4 Packing Group**
DOT, ADR, IMDG, IATA Not Regulated
- 14.5 Environmental Hazards:**
Marine Pollutant: No
Special precautions for user Not applicable
- 14.6 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable

UN "Model Regulation"

Section 15: Regulatory Information**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture****United States (USA)****SARA**

Section 355 (extremely hazardous substances): substance not listed
Section 313 (specific toxic chemical listings): substance is listed
TSCA (Toxic Substances Control Act): substance is listed

Proposition 65 (California)

Chemicals known to cause cancer
Present in trace quantities: 13463-67-7 Titanium Dioxide
Chemicals known to cause reproductive toxicity for females: substance not listed
Chemicals known to cause reproductive toxicity for males: substance not listed
Chemicals known to cause developmental toxicity: substance not listed

Carcinogenic Categories

EPA (Environmental Protection Agency): substance not listed
IARC (International Agency for Research on Cancer): substance not listed
TLV (Threshold Limit Value established by ACGIH): 1344-28-1 aluminum oxide
NIOSH-Ca (National Institute for Occupational Safety and Health): substance not listed
State Right to Know Listings: substance not listed

Section 15: Regulatory Information (Continued)**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

15.2 Other Regulations, 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 information required by the Controlled Product Regulations

15.3 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Section 16: Other information

The indications made in this product information are based on the present state of our know-how and experience. The product information describes the unused product in view of safety requirements. The indications do not constitute any guarantee with regard to product and do not create a contractual legal relationship.

All information given above refer to the unused product. As a result of mechanical application changes in the chemical and physical properties could not be excluded. The chemical and physical properties of the waste, strongly depend on the conditions of use. All indications made in this product information concerning composition, dangers, first aid, fire-fighting measures, accidental release measures, handling and storage, exposure control and personal protection, physical and chemical properties, stability and reactivity, toxicological information, ecological information, disposal information, transport information and regulatory information are only valid for the unused product and not for abrasive waste.

It is the responsibility of the user to find out all the necessary information.

Abbreviations and Acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the international Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Services (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent