

## SAFETY DATA SHEET

**Product Name/Description:** Alumina, Fused Aluminum Oxide White      **REVISION DATE:** 11-1-2021

### 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

##### White Fused Aluminum Oxide

CAS Number: 1344-28-1

EC number: 215-691-6

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

Application of the substance / the mixture Industrial uses.

#### 1.3 Other means of identification

#### 1.4 Details of the supplier of the Safety Data Sheet- Manufacturer/Supplier:

MAXI-BLAST, INC  
3650 NORTH OLIVE ROAD  
SOUTH BEND, IN 46628 USA

EMERGENCY NUMBER; 1-574-233-1161

### 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H351.

health hazard



Carc. 2 H351 Suspected of causing cancer.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.

Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

#### Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Note for United States only:

If a Category 2 carcinogen ingredient is present in the mixture at a concentration between 0.1% and 1%, information is required on the SDS for a product. However, a label warning is optional.

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The substance is classified and labelled according to the Globally Harmonized System within the United States (GHS).

This product does not have a classification according to the CLP regulation. The substance is classified and labelled according to the CLP regulation.

## Hazard pictograms

Not applicable within the EU; applicable only for North America.



GHS08

## Signal word

Not applicable within the EU; applicable only for North America.

Warning

## Hazard-determining components of labelling:

titanium dioxide

## Hazard statements

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H351.

H351 Suspected of causing cancer.

## Precautionary statements

Applicable only within the United States (USA)

P281

Use personal protective equipment as required.

P202

Do not handle until all safety precautions have been read and understood.

P308+P313

IF exposed or concerned: Get medical advice/attention.

P405

Store locked up.

P501

Dispose of contents/container in accordance with local/regional/national and international regulations.

## Hazard description:

WHMIS-symbols: Not hazardous under WHMIS.

## NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

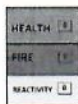


## HMIS-ratings (scale 0 - 4)

Health =\*0

Fire = 0

Reactivity = 0



## HMIS Long Term Health Hazard Substances

13463-67-7 titanium dioxide

## 2.3 Other hazards

### Results of PBT and vPvB assessment

PBT: Not applicable.

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## 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

**CAS No. Description:**

1344-28-1 aluminum oxide

**Identification number(s)**

EC number: 215-691-6

· Dangerous components:		
CAS: 13463-67-7	titanium dioxide (classification relevant for USA/Canada only)	
EINECS: 236-675-5	☠ Carc. 2, H351	< 1%

## 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

**General information:** No special measures required.**After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

**After skin contact:**

Brush off loose particles from skin. Clean with water and soap.

If skin irritation continues, 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; call for medical help immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Coughing

Gastric or intestinal disorders.

Breathing difficulty

**Hazards** Danger of impaired breathing.

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

No further relevant information available.

## 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.**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 firefighters

**Protective equipment:**

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

**Additional information** No further relevant information available.



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## 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 Environmental precautions:** No special measures required.

### 6.3 Methods and material for containment and cleaning up:

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

## 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Prevent formation of dust.  
Any unavoidable deposit of dust 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.  
**Information about fire - and explosion protection:** No special measures required.

### 7.2 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.

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

## 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Additional information about design of technical facilities:** No further data; see item 7.

### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
<b>1344-28-1 aluminum oxide</b>	
PEL (USA)	Long-term value: 15*; 15** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction
EL (Canada)	Long-term value: 1,0 mg/m <sup>3</sup> respirable, as Al
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> total dust
<b>13463-67-7 titanium dioxide</b>	

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PEL (USA)	Long-term value: 15* mg/m <sup>3</sup> *total dust
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 10 mg/m <sup>3</sup> withdrawn from NIC
EL (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup> *total dust; **respirable fraction; IARC 2B
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> *total dust

**DNELs** No further relevant information available.

**PNECs** No further relevant information available.

**Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals. 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.

**Respiratory protection:**

Suitable respiratory protective device recommended.

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 NIOSH or EN 388. 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.

**Limitation and supervision of exposure into the environment:** No special requirements.

**Risk management measures:** No special requirements.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**General Information**

**Appearance:**

**Form:**

Granulate

**Color:**

White

**Odor:**

Odorless

**Odor threshold:**

Not determined.

**pH Value:**

Slightly alkaline

**Change in condition**

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Melting point/Melting range:	3704 °F / 2040 °C
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Auto/Self-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.
Density at 20 °C:	3.97 g/cm <sup>3</sup>
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water:	Insoluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity	
Dynamic:	Not applicable.
Kinematic	Not applicable.

No further relevant information available.

### 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

#### 10.2 Chemical stability

##### Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

#### 10.3 Possibility of hazardous reactions

Reacts with strong acids.

Reacts with oxidizing agents.

Reacts with strong alkali.

**10.4 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

### 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

##### Acute toxicity:

##### Primary irritant effect:

**on the skin:** No irritant effect.

**on the eye:** Slight irritant effect on eyes.

**Sensitization:** No sensitizing effects known.

**Repeated dose toxicity:** May cause damage to organs through prolonged or repeated exposure.

##### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Based on IARC classifications and not the CLP classification.

Carc. 2



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## 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**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 Bioaccumulative potential** Does not accumulate in organisms.

**12.4 Mobility in soil** No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

## 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 wastes. Residual materials should be treated as hazardous.

#### Uncleaned packaging:

**Recommendation** Disposal must be made according to official regulations.

## 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

Class

Not Regulated

### 14.4 Packing group

DOT, ADR, IMDG, IATA

Not Regulated

### 14.5 Environmental hazards:

**Marine pollutant:**

No

### 14.6 Special precautions for user

Not applicable.

### 14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

UN "Model Regulation":

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## 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 is not listed.
Section 313 (Specific toxic chemical listings):	Substance is not listed.
TSCA (Toxic Substances Control Act):	Substance is listed.

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Proposition 65 (California):		
Chemicals known to cause cancer:		13463-67-7 titanium dioxide
Chemicals known to cause reproductive toxicity for females:		Substance is not listed.
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)	2B	13463-67-7 titanium dioxide
TLV (Threshold Limit Value established by ACGIH)	A4	1344-28-1 aluminum oxide
	A4	13463-67-7 titanium dioxide
NIOSH-Ca (National Institute for Occupational Safety and Health)		13463-67-7 titanium dioxide
Canada		
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, 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 Products Regulations.

### Substances of very high concern (SVHC) according to REACH, Article 57

Substance is not listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16: OTHER INFORMATION

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.

### Relevant phrases

H351 Suspected of causing cancer.

### 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

**GHS:** Globally Harmonized System of Classification and Labelling of Chemicals

**ACGIH:** American Conference of Governmental Industrial Hygienists

**EINECS:** European Inventory of Existing Commercial Chemical Substances

**ELINCS:** European List of Notified Chemical Substances

**CAS:** Chemical Abstracts Service (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)

**DNEL:** Derived No-Effect Level (REACH)

**PNEC:** Predicted No-Effect Concentration (REACH)

**Carc. 2:** Carcinogenicity, Hazard Category 2