

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/25/25 Supersedes: 01/17/17

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : Tabular, Calcined and reactives

Other means of identification

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

Use of the substance/mixture : Refractory products

1.3. Details of the supplier of the safety data sheet

FX Minerals 257 Kennedy Pa

257 Kennedy Park Marina Rd Newell, WV 26050 (304) 387-1160

lab@fxminerals.com

1.4. Emergency telephone number

Emergency number : (304) 387-1160

After 5PM weekdays, weekends and holidays: (814) 360-9040

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified in GHS-US

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) : None

Signal word (GHS-US) : None
Hazard statements (GHS-US) : None

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust P280 - Wear appropriate PPE

P285 - In case of inadequate ventilation wear respiratory protection. P308 + P313 - If exposed or concerned: Get medical advice/attention

P302 + P352 - IF ON SKIN: wash with plenty of water. P301 + P330 + P331 - IF SWALLOWED: Rinse mouth

P501 - Dispose of contents/container to comply with local/regional/national/international

regulations

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do - continue rinsing.

2.3. Other hazards

Other hazards not contributing to the classification

: Other constituents in this product are considered nuisance particles or dust. Exposure to dusts or powders may cause mechanical irritation of the respiratory system, eyes, and skin.

2.4. Unknown acute toxicity (GHS-US)

99.3 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

03/25/2017 EN (English) Page 1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/information on ingredients

Substance 3.1.

Not applicable

Mixture 3.2.

Name	Product identifier	%	GHS-US classification
Aluminum Oxide	(CAS No) 1344-28-1	> 99.0	Not classified

Full text of H-phrases: see section 16

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general : Ensure that medical personnel are aware of the material(s) involved and take precautions to protect

: Immediate effects are not anticipated. If large amounts of dusts are inhaled, remove to fresh air. If First-aid measures after inhalation breathing problems occur, a certified professional should administer oxygen or CPR if indicated.

Seek immediate medical attention.

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by First-aid measures after skin contact

warm water rinse.

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness First-aid measures after eye contact

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact Direct contact may cause irritation, rash or dry skin. Rubbing may intensify symptoms and

create abrasions.

Symptoms/injuries after eye contact Particulate matter may scratch the comea or cause other mechanical injury to the eye. Scratching

or physical damage to the eyes can cause irritation, redness, pain, tear formation, blurred vision,

and light sensitivity. Symptoms/injuries after ingestion : Practically non-toxic. Ingestion is not anticipated under normal working conditions.

: There are no potential chronic health effects to consider. Chronic symptoms

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Any. Use media appropriate for surrounding fire.

Special hazards arising from the substance or mixture

: Not flammable. Fire hazard

Reactivity Not reactive undernormal use and conditions.

Advice for firefighters

Protection during firefighting : Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters'

protective clothing will provide adequate protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures Evacuate area. Ensure adequate air ventilation.

For non-emergency personnel 6.1.1.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stay upwind. Ventilate area.

Environmental precautions

No special environmental precautions are required.

03/25/2017 EN (English) 2/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Recover product and place into appropriate containers for disposal or recycling. Preferable Method is by using vacuum device, if available, otherwise by broom and shovel.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

 Avoid dust inhalation and promulgation. DO NOT use compressed air or dry sweeping to remove dust from work area. Dusts should be removed using an appropriately equipped

vacuum. If an appropriate vacuum is un available, only wet-clean-up methods should be used (i.e. wet sweeping, misting, etc.). Moisture should be added as necessary to reduce exposure

to airborne respirable dust.

Hygiene measures

Practice good housekeeping. Wash thoroughly after handling. Change contaminated clothing. Do not reuse until laundered. Do not take silica contaminated clothing home.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Containers should be stored in room at ambient temperature and pressure. Keep container

closed when not in use.

7.3. Specific end use(s)

Use of the substance/mixture : Refractory products

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Aluminum Oxide (1344-28-1)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m ³
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (Total dust); 5 mg/m3 (Respirable Fraction)

8.2. Exposure controls

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Enclosed processes used in combination with local exhaust ventilation as necessary to control air contaminants at or below acceptable exposure guidelines. Collection systems must be designed and maintained to prevent the accumulation and recirculation of respirable silica into the workplace.

Personal protectivse equipment

: Avoid all unnecessary exposure.

Hand protection

: None required. Polymeric gloves are recommended to prevent irritation. Nitrile construction materials appear to offer the best protection against the ingredients of the product.

Eye protection

: Chemical goggles or safety glasses.

Skin and body protection

: Under dusty conditions or when excessive skin contact is likely, wear coveralls or other suitable work clothing.

Respiratory protection

: Avoid inhaling the dust. In case of concentrations above the exposure limits, suitable Certified respirator must be worn.

03/25/2017 EN (English) 3/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hygiene Measure

Do not eat, drink or smoke when handling.

Environmental Exposure Controls

Avoid dust formation.

Ingredient comments: Dust contains respirable crystalline silica. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable dust should be monitored and controlled. The product should be handled using methods and techniques that minimize or eliminate dust generation. The product contains less than 1% w/w RCS (respirable crystalline silica) as determined by XRD Methods (NIOSH 7500).

03/25/2017 EN (English) 4/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid grains/powders

Appearance : Powder.

Color : White in Color

Odor : No data available

Odor threshold : No data available

pH : 8-10

3.4-3.9 g/cm³ Density Melting point : >2050 °C (3700 °F) Freezing point Not applicable Boiling point Not applicable Not applicable Flash point Auto-ignition temperature No data available Decomposition temperature : No data available No data available Flammability (solid, gas) No data available Vapor pressure : No data available Relative vapour density at 20 °C

Solubility : Insoluble.

Water: Solubility in water of component(s) of the mixture

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive under normal use and conditions.

10.2. Chemical stability

Stable at normal temperatures and pressure.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Avoid generating dust.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Combustion may produce carbon monoxide and other harmful substances.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Oral : LD50 \Rightarrow 5000 mg/kg/ bw

Dermal : Conclusive but not sufficient for

classification

Inhalation : LC50 = 7.6 mg/l
Skin Corrosion : Not Corrosive
Skin Irritation : Not irritating

03/25/2017 EN (English) 5/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Chronic Toxicity

Irritation : Conclusive but not sufficient for classification

Corrosivity : Conclusive but not sufficient for classification

Sensitization : Conclusive but not sufficient for classification

Mutagenic Effects : Conclusive but not sufficient for classification

Carcinogenic Effects : Not classified as a human carcinogen – ACGIH-A4.

Reproduction Effects

Conclusive but not sufficient for classification

Developmental Effects

Conclusive but not sufficient for classification

Aspiration Hazards

Conclusive but not sufficient for classification

SECTION 12: Ecological information

12.1. Toxicity

Not expected to be toxic to quaitic organisms.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Alpha Star®	
Bioaccumulative potential	This product is not expected to bioaccumulate.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Dispose of as inert solid in landfill. Dispose of waste material according to Local, State and Federal environmental regulations. Never discharge directly into sewers or surface waters. Slurry may plug drains.

03/25/2017 EN (English) 6/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SECTION 14: Transport information

In accordance with

DOT Not regulated for

transport

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Tabular, Calcined and Reactive

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC

[DPD]

Not classified

15.2.2. National regulations

15.3. US State regulations

SECTION 16: Other information

Revision date : 03/25/2017

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard : 0 Minimal Hazard Physical

Personal Protection : E

SDS US (GHS HazCom 2012)

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03/25/2017 EN (English) 7/6