# Zafa Glass Inc. SAFETY DATA SHEET

Revision Date 05/23/2017 Print Date 05/23/2017

# 1. PRODUCT AND COMPANY IDENTIFICATION

#### **1.1 Product identifiers**

Product name : Amorphous Silica Brand : Zafa Glass Panel Glass CAS-No. : 112945-52-5

**1.2 Relevant identified uses of the substance or mixture and uses advised against** Identified uses: Aggregate, Abrasive for dry or wet blasting, concrete additive

#### 1.3 Details of the supplier of the safety data sheet

Company: Zafa Glass Inc. 6573 Warren Drive, Norcross, GA, 30093 USA. Telephone: +1 (678) 670 7599 **1.4 Emergency telephone number** 

Emergency Phone: +1 (678) 670 7599

#### 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

## 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Synonyms : Silicon dioxide, Amorphous Silica, Silicon dioxide CAS-No. : (112945-52-5)

Name	Ingredients	Compositions
Calcia-Silica-Alumina	CaO, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub>	70-80%
Barium Oxide	BaO	2-14%
Sodium and Potassium Oxide	Na2O, K2O	8-14%
Magnesium Oxide	MgO	0-5%
Titanium Oxide	TiO2	< 1%

#### Hazardous components

**Crystalline silica** <= .01 % This product is virtually crystalline-silica free therefore, does not cause silicosis, a fatal lung disease.

#### 4. FIRST AID MEASURES 4.1 Description of first aid measures

General advice Move out of affected area. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration.

# In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### **4.3 Indication of any immediate medical attention and special treatment needed** No data available

# **5. FIREFIGHTING MEASURES**

## 5.1 Extinguishing media

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture
- Material is non-combustible, will not react with firefighting chemicals

# 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

# 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

For personal protection see section 8.

# **6.2 Environmental precautions**

No special environmental precautions required.

# 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

# 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Further processing of solid materials may result in the formation dusts. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.

Storage class (TRGS 510): Non Combustible Solids

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

# Components with workplace control parameters

Component CAS-No. Value Control parameters Basis

Amorphous silica 112945-52-5 TWA 20.000000Million particles per cubic foot

USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts Remarks Based on samples counted by light-field techniques. mppcf X 35.3 = million particles per cubic meter = particles per c.c TWA 80.000000mg/m 3 / %SiO2

USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts TWA 20.000000Million particles per cubic foot

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USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts TWA 6.000000 mg/m3

USA. NIOSH Recommended Exposure Limits TWA 6.000000 mg/m3

USA. NIOSH Recommended Exposure Limits TWA 20Million particles per cubic foot

USA. Occupational Exposure Limits

(OSHA) - Table Z-3 Mineral Dusts Based on samples counted by light-field techniques. mppcf X 35.3 = million particles per cubic meter = particles per c.c TWA 80mg/m3 /%SiO2

USA. Occupational Exposure Limits

(OSHA) - Table Z-3 Mineral Dusts TWA 6 mg/m3 USA. NIOSH Recommended Exposure Limits

#### 8.2 Exposure controls

## Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as

NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without

touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after

use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

No special environmental precautions required.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

- a) Appearance Form: solid
- b) Odor No data available
- c) Odor Threshold No data available
- d) pH 3.6 4.3 at 40 g/l
- e) Melting point/freezing point Melting point/range: > 1,600 °C (> 2,912 °F)
- f) Initial boiling point and boiling range 2,200 °C (3,992 °F) at 1,013 hPa (760 mmHg)
- g) Flash point Not applicable
- h) Evaporation rate No data available
- i) Flammability (solid, gas) No data available
- j) Upper/lower flammability or explosive limits No data available
- k) Vapor pressure No data available
- I) Vapor density No data available
- m) Relative density 2.200 g/cm3
- n) Water solubility insoluble
- o) Partition coefficient: noctanol/water No data available
- p) Auto-ignition temperature No data available
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

#### 9.2 Other safety information

No data available

#### **10. STABILITY AND REACTIVITY**

#### 10.1 Reactivity

- No data available
- 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No data available

# 10.4 Conditions to avoid

Exposure to moisture may affect product quality.

#### 10.5 Incompatible materials

Strong acids( concentrated HF), Oxidizing agents, Ammonia, Oxygen difluoride, Chlorine trifluoride

#### **10.6 Hazardous decomposition products**

Other decomposition products - No data available In the event of fire: see section 5

#### **11. TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects

Acute toxicity No data available Inhalation: No data available Dermal: No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity Rat - Lungs, Body fluid assay Rat - Unscheduled DNA synthesis Carcinogenicity Carcinogenicity - Rat - Inhalation Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors. This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (amorphous silica) 3 - Group 3: Not classifiable as to its carcinogenicity to humans (amorphous silica) NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present is at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. **Reproductive toxicity** No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information RTECS: VV7310000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. **12. ECOLOGICAL INFORMATION** 12.1 Toxicity

#### No data available 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.6 Other adverse effects

# No data available

## **13. DISPOSAL CONSIDERATIONS**

# 13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company

#### **Contaminated packaging**

Dispose of as unused product.

# 14. TRANSPORT INFORMATION DOT (US)

Not dangerous goods

Not dangerous goods

ΙΑΤΑ

Not dangerous goods

# **15. REGULATORY INFORMATION**

## SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Chronic Health Hazard

#### Massachusetts Right To Know Components

No components are subject to the Right to Know Act.

#### Pennsylvania Right To Know Components

Amorphous silica CAS-No. 112945-52-5 Revision Date

## New Jersey Right To Know Components

Amorphous silica

CAS-No. 112945-52-5 Revision Date

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### **16. OTHER INFORMATION**

#### HMIS Rating

Health hazard: 0 Chronic Health Hazard: \* Flammability: 0 Physical Hazard 0

#### **NFPA** Rating

Health hazard: 0 Fire Hazard: 0 Reactivity Hazard: 0

# Further information

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