

SAFETY DATA SHEET

Version 1.0
Revision Date 16-05-2023
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1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name :
Color coated amorphous Silica Glass

Brand : **ColVitro®**

CAS No: 112945-52-5

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

Identified uses : Colored Aggregate, Concrete additive

1.3 Details of the supplier of the safety data sheet

Company : Unicast BV
Daalstraat 35-1
3832 Wellen (Belgium)
Telephone : +32 (0) 12 225 226

1.4 Emergency telephone number

Emergency Phone # : +32 (0) 12 225 226
Email: info@unicraft.be

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
Calcium-Silica-Alumina	CaO, SiO ₂ , Al ₂ O ₃	70-80%
Barium Oxide	BaO	2-14%
Sodium and Potassium Oxide	Na ₂ O, K ₂ O	8-14%
Magnesium Oxide	MgO	0-5%
Titanium Oxide	TiO ₂	< 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

silicon oxides

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 of 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 impinger samples counted by light-field techniques. mppcf X 35.3 = million particles per cubic meter = particles per c.c TWA 80.000000mg/m³ / %SiO₂

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(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

Eyeface protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) EN 166(EU).

Skin protection

Nitrile or Kevlar – based products recommended

Body Protection

Recommended to prevent skin irritation

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
- l. Vapor density No data available
- m. Relative density 2.200 g/cm³
- n. Water solubility insoluble
- o. Partition coefficient: octanol/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, Strong bases, Hydrogen fluoride, Oxidizing agents, Ammonia, Oxygen difluoride,

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

UN Number

Not listed

DOT (US)

Not dangerous goods

15. REGULATORY INFORMATION

15.1 Safety, health and
environmental regulations /
legislation specific for the substance
or mixture

15.2 Not classified as dangerous
according to Council Directive
67/548/EEC

OTHER INFORMATION

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