

Material Safety Data Sheet

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Silicon dioxide (Pieces, Sputtering target)

1. Product Identification

Trade Name: Silicon dioxide (pieces, Sputtering Target)

Chemical Formula: SiG

Recommended Use: Scientific research and development

2. Hazards Identification

Signal Word: None in Provided Form

Hazard Statements: Not classified as hazardous in provided form

Precautionary Statements Under normal handling and use, exposure to solid forms of this

material present few health hazards. If subsequent operations produce dust or fumes, these may irritate lungs, eyes or skin. Long-term exposure to respirable crystalline silica dusts may cause silicosis or

cancer.

P201: Obtain special instructions before use

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

HMIS Ratings (0-4):

Health: 1
Flammability: 0
Physical: 0

Composition

Chemical Family: Ceramic

Additional Names: Quartz, Silica, Silicic oxide, Silicon (IV) oxide, Crystalline silica,

Cristobalite

Silicon Oxide (SiO₂):

Percentage: 100 wt%

CAS #: 7631-86-9, 14808-60-7 EC #: 231-545-4, 238-878-4

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Ingestion: Seek Medical Attention.

Skin: Wash affected area with mild soap and water. Remove any

contaminated clothing.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing

5. Firefighting Measures

Flammability: Non-flammable

Extinguishing Media:

No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire.

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Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full

protective clothing to prevent contact with skin and eyes. See

section 10 for decomposition products.

6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in

special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for

disposal. Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store apart

from materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A

Threshold Limit Value: 3000 mg/m³as Silicon dioxide amorphous pieces

Special Equipment: None

Respiratory Protection:
Protective Gloves:
Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color White to pale brown

Form: Granules, Pieces, Sputtering target, Custom parts

Odor:
Water Solubility:
Boiling Point:
Melting Point:
Flash Point:
Autoignition Temperature:
N/A
Density:
Odorless
Insoluble
2230 °C
N/A
1710 °C
N/A
N/A
N/A

Molecular weight: 60.08 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: None

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Incompatible Conditions: None

Hazardous Decomposition Products: Silicon Oxide

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation
Skin: May cause irritation
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: Inhalative- Not relevant- solid pieces

Signs & Symptoms: N/A
Aggravated Medical N/A

Conditions:

Median Lethal Dose: N/A

Carcinogenicity: Based on available data the classification criteria are not met.

IARC Carcinogenicity: None of the ingredients are listed or exempt.

12. Ecological Information

Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bio-accumulative: N/A

Notes:

Do not allow material to be released to the environment without

proper governmental permits

Do not allow undiluted product or large quantities to reach ground water, water course, or sewage system Avoid transfer into the

environment
13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Not hazardous for transportation

The product is not covered by international regulations on the transport

of dangerous goods (IMDG, IATA, DoT).

Hazard Class: N/A
Packing Group: N/A
UN Number: N/A
Proper Shipping Name: N/A

15. Regulatory Information

Sec 302 Extremely Hazardous: N/A
Sec 304 Reportable Quantities: N/A
Sec 313 Toxic Chemicals: N/A

16. Other Information

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This safety data sheet should be used in conjunction with technical sheets. It does not replace them. **No warranty, guarantee or representation is made to its accuracy, reliability or completeness.** These materials should only be handled by, or under the direct supervision of a "technically qualified individual", as defined in TSCA regulations 40 CFR 710.3(ee). The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products

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