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> VERSION 3.1 REVISION DATE 06/26/2021

Safety Data Sheet

I. Product Identification

Manufacturer/Supplier: QS Advanced Materials Inc 599 Thurber Dr. Toy, MI 48085 Tel: 866-279-7170 E-mail: Sales@QSadvancedmaterials.com

Product Name: Silicon Carbide (SiC) Sputtering TargetsFormula of major composition: SiCCAS Number: 409-21-2

II. Hazardous Identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

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

III. Composition/information on ingredients

Specific Gravity:	No data.
Solubility in H2O:	Insoluble
Appearance and Odor:	Grey Solid, no ordor

IV. FIRST AID MEASURES

4.1 Description of first aid measures General advice



Move out of dangerous 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

V. FIRE AND EXPLOSION HAZARDS DATA

Flash Point:	N/A	
Flammability:	N/A	
Autoignition Temperature:	N/A	
Flammable Limits:	Upper:	NA
	Lower:	NA
Extinguishing Media:	Use suitable extinguishing media for surrounding material and type of fire.	
Special Firefighting Procedures:	Fire fighters must wear full face, self-contained breathing apparatus with full	
	protective clothing to prevent contact with skin and eyes. Fumes from fire	
	are hazardous. Isolate runoff to prevent environmental pollution.	
Unusual Fire & Explosion Hazards:	NA	

VI. 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 VIII.
- **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 XIII.

VII. Handling and storage

7.1 Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. 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.

Keep in a dry place. Storage class (TRGS 510): 13: Non-Combustible Solids

7.3 Specific end use(s)

Apart from the uses as laboratory chemicals no other specific uses are stipulated

VIII. Exposure controls/personal protection

Respiratory Protection:	NIOSH approved respirator.
Ventilation:	Use local exhaust to limit personal exposure to levels which do not
	exceed the TLV. General exhaust is recommended.
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses
Appropriate engineering controls: Ger	neral industrial hygiene practice.

IX. Physical and chemical properties

- a) Appearance Grey Solid, no ordor
- b) **Odor** odorless
- c) **Odor Threshold** No data available
- d) **pH** Solid, no data available
- e) **Melting point** 2700°C
- f) Initial boiling point N.A.
- g) Flash point
- h) **Evaporation rate** No data available
- i) **Flammability (solid, gas)** The product is not flammable.
- j) Upper/lower flammability or explosive limits No data available

Not applicable



k) Vapour pressure

/apour	density	No data	availa

m) Water solubility

I) V

No data available Insoluble

No data available

X. 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 No data available
- **10.5** Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products No decomposition in regular fire conditions.

XI. Toxicological information

11.1 Information on toxicological effects Acute

toxicity

LD50 Oral - Rat - male and female - > 10,000 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 2.3 mg/l

(OECD Test Guideline 403)

Dermal: No data

available No data

available

Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 24 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization

Draize Test - Guinea pig Result: Does not cause skin sensitization. - Mouse Result: Does not cause respiratory sensitization.

Germ cell mutagenicity



No data available

Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- 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 at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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: Not available

Cough, chest pain, Difficulty in breathing, Gastrointestinal disturbance To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

XII: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bio accumulative 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

XIII: 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.

XIV: Transport information

DOT (US) Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

XV: 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

The following components are subject to reporting levels established by SARA Title III, Section 313:Silicon CarbideCAS-No. 409-21-2Revision Date 1994-04-01

SARA 311/312 Hazards

Chronic Health Hazard

XVI: Other information

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. **QSAM** shall not be held liable for any damage resulting from handling or from contact with the above product

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