

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Identifier: (4N) 99.99% Silicon Dioxide Pellets

Product Code: SI-OX-04-PE

CAS Number: 7631-86-9

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351 Emergency telephone number: +1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Specific target organ toxicity - repeated exposure (Category 1), H372



Signal word: Danger Hazard statement(s) H372 Causes damage to organs through prolonged or repeated exposure. Precautionary statement(s) P260 Do not breathe dust/ fume/ gas/ mist/ Vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P314 Get medical advice/ attention if you feel unwell. P501

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances Synonyms: Silicon dioxide Formula: O2Si Molecular Weight: 60.08 g/mol CAS-No.: 7631-86-9 EC-No.: 231-545-4 Hazardous components Component: Silicon dioxide Classification: STOT RE1; H372 Concentration: 90-100%

SECTION 4. FIRST AID MEASURES

Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. 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. Consult a physician. 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 Indication of any immediate medical attention and special treatment needed: no data available

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SECTION 5. FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture silicon oxides Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary. Further information no data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing Vapors, mist or gas. Avoid breathing dust. For personal protection see section 8. Environmental precautions Do not let product enter drains. Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Reference to other sections For disposal see section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

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

Specific end use(s)

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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.

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

Do not let product enter drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Appearance Form: solid Odor: no data available Odor Threshold: no data available pH: no data available Melting point/freezing point Melting point/range: > 1,600 °C (> 2,912 °F) Initial boiling point and boiling range: 2,230 °C (4,046 °F) Flash point: no data available EVaporation rate: no data available Flammability (solid, gas): no data available Upper/lower flammability or explosive limits: no data available Vapor pressure: no data available Vapor density: no data available Relative density: 2.600 g/cm3 Water solubility: insoluble Partition coefficient: n-octanol/water: no data available Auto-ignition temperature: no data available Decomposition temperature: no data available Viscosity: no data available Explosive properties: no data available Oxidizing properties: no data available Other safety information: no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: no data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions: no data available Conditions to avoid: no data available Incompatible materials Strong oxidizing agents Hazardous decomposition products In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity LD50 Oral - rat - 3,160 mg/kg 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 sensitisation: no data available Germ cell mutagenicity 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 (Silicon dioxide) ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. 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 identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity no data available no data available Specific target organ toxicity - single exposure: no data available Specific target organ toxicity - repeated exposure: no data available The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1. Aspiration hazard: no data available Additional Information **RTECS:** Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

SECTION 12. ECOLOGICAL INFORMATION

Toxicity no data available Persistence and degradability: no data available Bioaccumulative potential: no data available Mobility in soil: no data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted Other adverse effects: no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging

SECTION 14. TRANSPORT INFORMATION

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

SECTION 15. REGULATORY INFORMATION

SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. **SARA 313** Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Chronic Health Hazard Massachusetts Right To Know Components Silicon dioxide CAS-No.: 7631-86-9 Revision Date: 1993-04-24 Pennsylvania Right To Know Components Silicon dioxide CAS-No.:7631-86-9 Revision Date: 1993-04-24 New Jersey Right To Know Components Silicon dioxide CAS-No.: 7631-86-9 Revision Date: 1993-04-24 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

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). 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. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for

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