

Section 1 - Product and Company Identification

1.1 Product identifiers

Product name: Nano-SiO₂

Catalog code: tlrl-sio-2

CAS number: 7631-86-9

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

Identified use: Laboratory chemicals

Disclaimer: All InvivoGen products are supplied for research and laboratory use only. Not for drug, household or other uses.

1.3 Details of the supplier of the safety data sheet

InvivoGen USA, 10515 Vista Sorrento Parkway

San Diego, California 92121, USA

(+1) 888 457 5873

InvivoGen Europe, 5 rue Jean Rodier

31400 Toulouse, France +33 (0) 5 62 71 69 39

InvivoGen Asia, Unit 106, 1F,

15W Phase 3 Hong Kong Science Park,

Pak Shek Kok, Hong Kong

+852 3622 3480

1.4 Emergency telephone number: ORFILA (INRS): +33 (0)1 45 42 59 59

Section 2 - Hazards Identification

2.1 Classification of substance according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] and GHS

Specific target organ toxicity - repeated exposure (Category 1), H372

2.2 Label elements according to Regulation (EC) No 1272/2008 [CLP] and GHS

Pictogram

Company:

Signal word Danger

Hazard statement(s)

H372 Causes damage to lungs through prolonged or repeated exposure by inhalation.

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container to an approved waste disposal.

Phone US: (858) 457 5873 - Fax US: (858) 457 5843

Phone EU: +33 (0)5 62 71 69 39 - Fax EU: +33 (0)5 62 71 69 30 Phone Asia: +852 3622 3480 - Fax Asia: +852 3622 3483

Website: www.invivogen.com

Email: <u>info@invivogen.com</u> 1/5

Product SiO₂

Revision Date 03 Feb. 2023

Version 1.2



2.3 Other hazards - none

<u>Section 3 – Composition/Information on Ingredient</u>

3.1 Substances

Synonyms: Nanoparticles of silica dioxide

Formula: SiO₂

Molecular weight: 60.08 g/mol CAS number: 7631-86-9

Section 4 – First Aid Measures

4.1 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, remove to fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash skin with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5 – Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, carbon dioxide, dry chemical powder or appropriate foam.

5.2 Specific hazards arising from the chemical

No data available

5.3 Special Firefighting Procedures

Wear self-contained breathing apparatus for firefighting if necessary.

<u>Section 6 – Accidental Release Measures</u>

6.1 Personal precautions, protective equipment and emergency

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

Phone US: (858) 457 5873 - Fax US: (858) 457 5843

Phone EU: +33 (0)5 62 71 69 39 - Fax EU: +33 (0)5 62 71 69 30 Phone Asia: +852 3622 3480 - Fax Asia: +852 3622 3483

Website: www.invivogen.com
Email: info@invivogen.com

Product SiO₂
Revision Date 03 Feb. 2023

Version 1.2



<u>Section 7 – Handling and Storage</u>

7.1 Precautions for safe handling

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.

Recommended storage temperature: Store at room temperature (15-25°C).

7.3 Specific end use(s)

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

Section 8 – Exposure Controls/PPE

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. 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/Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: Solid Color: White Safety Data

Odor: No data available

Odor threshold: No data available

Phone US: (858) 457 5873 - Fax US: (858) 457 5843

Phone EU: +33 (0)5 62 71 69 39 - Fax EU: +33 (0)5 62 71 69 30 Phone Asia: +852 3622 3480 - Fax Asia: +852 3622 3483

Website: www.invivogen.com
Email: info@invivogen.com

Product SiO₂

Revision Date 03 Feb. 2023

Version 1.2





pH: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: No data available Evaporation rate: No data available Flammability: No data available

Upper/lower flammability or explosive limits: No data available

Vapor pressure: No data available Relative density: No data available Solubility in water: No data available

Partition coefficient (n-octanol/water): No data available

Autoignition temperature: No data available Decomposition temperature: No data available

Viscosity: No data available

9.2 Other safety information

no data available

Section 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: No data available **10.5 Incompatible materials:** No data available

10.6 Hazardous decomposition products: No data available

In case of fire: See section 5

Section 11 – Toxicological Information

11.1 Information on toxicological effects

Acute toxicity:

Oral LD50: No data available Inhalation LC50: No data available Dermal LD50: No data available

Other information on acute toxicity: No data available

Skin corrosion/irritation: No data available Serious eye damage/irritation: No data available Respiratory or skin sensitization: No data available

Germ cell mutagenicity:

Carcinogenicity - Rat - Inhalation

Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax.

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 (Silica 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

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 VV7310000

Phone US: (858) 457 5873 - Fax US: (858) 457 5843

Phone EU: +33 (0)5 62 71 69 39 - Fax EU: +33 (0)5 62 71 69 30 Phone Asia: +852 3622 3480 - Fax Asia: +852 3622 3483

Website: www.invivogen.com

Email: info@invivogen.com

Product SiO₂

Revision Date 03 Feb. 2023

Version 1.2

4/5



<u>Section 12 – Ecological Information</u>

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

or not conducted.

12.6 Other adverse effects: No data available

Section 13 – Disposal Considerations

13.1 Waste treatment methods

Product: Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

Contaminated Packaging: Dispose of as unused product.

Section 14 – Transport Information

14.1 UN number

ADR/RID: -DOT (US): -IMDG: -IATA: -

14.2 UN proper shipping name

not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -DOT (US): -IMDG: -IATA: -

14.4 Packaging group

ADR/RID: -DOT (US): -IMDG: -IATA: -

14.5 Environmental hazards

DOT (US): no IATA: no ADR/RID: no IMDG Marine pollutant: no

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Section 15 – Regulatory Information

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

no data available

15.2 Chemical Safety Assessment

no data available

Section 16 – Other Information

The information contained in this SDS relates only to the material(s) designated and does not relate to use(s) in combination with any other material, process(es) and/or chemical reaction(s). InvivoGen provides this information in good faith and is based on our present knowledge. This SDS is provided without warranty of any kind. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed.

Phone US: (858) 457 5873 - Fax US: (858) 457 5843

Phone EU: +33 (0)5 62 71 69 39 - Fax EU: +33 (0)5 62 71 69 30 Phone Asia: +852 3622 3480 - Fax Asia: +852 3622 3483

Website: www.invivogen.com

5/5 Email: info@invivogen.com