



Safety Data Sheet

Skyspring Nanomaterials, Inc.

www.ssnano.com

Updated on 02/01/2016

1 Identification of substance:

Product details:

Trade name: Silicon Lumps

Product numbers: 9720DG

Manufacturer/Supplier:

SkySpring Nanomaterials, Inc.
2935 Westhollow Dr., Houston, TX 77082, USA
Phone: 281-870-1700
Fax: 281-870-8002
Email: sales@ssnano.com

2 Composition/Data on components:

Chemical characterization:

Description: (CAS#)

Silicon (CAS# 7440-21-3), 99.99995%

Identification number(s):

EINECS Number: 231-130-8

3 Hazards identification

Emergency Overview

OSHA Hazards

No known OSHA hazards

HMIS Classification

Health Hazard: 1

Flammability: 0

Physical hazards: 0

NFPA Rating

Health Hazard: 0

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause

skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

4 First aid measures

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek immediate medical advice.

After skin contact

Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

After eye contact

Rinse opened eye for several minutes under running water.
Then consult a doctor.

After swallowing Seek immediate medical advice.

5 Fire fighting measures

Flammable properties

Flash point not applicable
Ignition temperature no data available

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

The product itself does not burn.

6 Accidental release measures

Personal precautions

Avoid dust formation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers

for disposal.

7 Handling and storage

Handling

Provide appropriate exhaust ventilation at places where dust is formed.

Storage

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

Handle and store under inert gas.

8 Exposure controls and personal protection

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace:

Silicon

	mg/m ³
ACGIH TLV	10
Belgium TWA	10
Denmark TWA	10
France TWA	10
Ireland TWA	5 (respirable); 10 (inhalable)
Netherlands TWA	10
Switzerland TWA	4
United Kingdom TWA	4 (respirable dust); 10 (total inhalable dust)
USA PEL	5 (respirable fraction); 15 (total dust)

Additional information: No data

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

Use suitable respirator when high concentrations are present.

Protection of hands: Impervious gloves

Eye protection: Safety glasses

Body protection: Protective work clothing.

9 Physical and chemical properties:**Appearance**

Form Solid form

Safety data

pH no data available

Melting point 1,410 °C (2,570 °F)

Boiling point 2,355 °C (4,271 °F)

Flash point not applicable

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Density 2.33 g/mL at 25 °C (77 °F)

Water solubility no data available

10 Stability and reactivity**Appearance**

Form Solid form

Safety data

pH no data available

Melting point 1,410 °C (2,570 °F)

Boiling point 2,355 °C (4,271 °F)

Flash point not applicable

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Density 2.33 g/mL at 25 °C (77 °F)

Water solubility no data available

11 Toxicological information**Acute toxicity:****LD/LC50 values that are relevant for classification:**

Oral: LD50: 3160 mg/kg (rat)

Irritation of eyes: mild: 3 mg (rbt)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity:

Elementary silicon is an inert material that seems to have little adverse effect on lungs and does not appear to produce significant organic disease or toxic effects when exposures are kept under reasonable control.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12 Ecological information:

General notes:

Do not allow material to be released to the environment without proper governmental permits.

13 Disposal considerations

Product:

Recommendation

Consult state, local or national regulations for proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

14 Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15 Regulations

OSHA Hazards

No known OSHA hazards

DSL Status

All components of this product are on the Canadian DSL list.

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

No SARA Hazards

Massachusetts Right To Know Components

Silicon

CAS-No.

7440-21-3

Revision Date

1991-07-01

Pennsylvania Right To Know Components

Silicon

CAS-No.

7440-21-3

Revision Date

1991-07-01

New Jersey Right To Know Components

Silicon

CAS-No.

7440-21-3

Revision Date

1991-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other

product or process, is the responsibility of the user.