Printing date 07/15/2021

Reviewed on 07/15/2021

1 Identification

- · Product name
- · Trade name: Silicon powder (nanocrystalline), min. 97%
- Item number: 14-0650
- · CAS Number:
- 7440-21-3
- *EC number:* 231-130-8
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Strem Chemicals, Inc.
 7 Mulliken Way NEWBURYPORT, MA 01950
- USA

info@strem.com

- · Information department: Technical Department
- Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flam. Sol. 2 H228 Flammable solid.



Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.STOT SE 3H335May cause respiratory irritation.

· Label elements

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

- Hazard-determining components of labeling: silicon
 Hazard statements
- H228 Flammable solid. H315 Causes skin irritation. H319 Causes serious eye irritation.

(Contd. on page 2)

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Printing date 07/15/2021

CHEMICALS, INC.

Reviewed on 07/15/2021

(Cond. of page H335 May cause respiratory irritation. Precautionary statements P331 H Handle under inert gas. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303+P351+P338 If in eyes: Ruise cautiously with water for several minutes. Remove contact lenses, if preset and easy to do. Continue rinsing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P422 Store contents under inert gas. P501 Dispose of contents/container in accordance with local/regional/national/internationa regulations. • Classification system: • NFPA ratings (scale 0 - 4) Health = 4 Fire = 1 Reactivity = 0 • HMIS-ratings (scale 0 - 4) HEALTH I Health = 3 Fire = 0 Reactivity = 0 • Other hazards • Results of P8T and vPB assessment • PBT: Not applicable. • VPvB: Not applicable. • VPvB: Not applicable. • VPvB: Not applicable. • Chemical characterization: Substances • CAS No. Description 7440-21-3 stitum • Identification number(s) • Commoer: 231-130-8 1 First-aid measures • General information: Immediately remove any clothing soiled by the product. • After whindation: In mediately remove any clothing soiled by the product. • After stin contact: Immediately remove any clothing soiled by the product. • After whindation: In mediately remove any clothing soiled by the product. • After whindation: Immediately remove any clothing soiled by the product. • After whindation: Immediately remove any clothing soiled by the product. • After whindation: Immediately remove any clothing soiled by the product. • After whindation: Immediately remove any clothing soiled by the product. • After ey contact: Runse opened exp for several minutes under running water. If symptoms persist, consul a doctor. • After swallowing: if symptoms and effects, both acute and delayed No further relevant information available. • Indication of any immediate medical attention and special treatment needed No further relevant information available.		
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5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- · Environmental precautions: No special measures required.
- *Methods and material for containment and cleaning up:* Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

· PAC-1: 45 mg/m3 · PAC-2: 100 mg/m3 · PAC-3: 630 mg/m3

7 Handling and storage

- · Handling: Handle under inert gas.
- · Precautions for safe handling
- *Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.*
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage: Store contents under inert gas.
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

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	rol parameters ponents with limit values that require monitoring at the workplace:
	-21-3 silicon
	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	TLV withdrawn
Addit	tional information: The lists that were valid during the creation were used as basis.
Perso Gene Keep Imme Wash Avoid Brea	esure controls conal protective equipment: eral protective and hygienic measures: a way from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. a hands before breaks and at the end of work. d contact with the eyes and skin. thing equipment: A NIOSH approved respirator in accordance with 29 CFR 1910.134. ection of hands:
	Protective gloves
Due i chem	glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ th ical mixture.
Mate	ation of the glove material on consideration of the penetration times, rates of diffusion and the degradation rial of gloves Selection of the suitable gloves does not only depend on the material, but also on further marks of quality an
Pene	s from manufacturer to manufacturer. tration time of glove material
obser	exact break through time has to be found out by the manufacturer of the protective gloves and has to b rved. protection:
	Tightly sealed goggles

Information on basic physic General Information	al and chemical properties	
Appearance:		
Form:	Powder	
Color:	Brown	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	

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		(Contd. of page
Change in condition		
Melting point/Melting range:	1.420 °C (35 °F)	
Boiling point/Boiling range:	2.600 °C (37 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Flammable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	1 hPa (1 mm Hg)	
Density at 20 °C (68 °F):	2.42 g/cm ³ (20.1949 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.0 g/l / 0.00 lb/gl	
Solids content:	100.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:

7440-21-3 silicon

- Oral LD50 3160 mg/kg (rat)
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

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· UN-Number	
· DOT, IMDG, IATA	UN1346
· UN proper shipping name	
·DOT	Silicon powder, amorphous
· IMDG, IATA	SILICON POWDER, AMORPHOUS
· Transport hazard class(es)	
·DOT	
· Class	4.1 Flammable solids, self-reactive substances and soli desensitised explosives
· Label	4.1
· IMDG, IATA	
· Class	4.1 Flammable solids, self-reactive substances and soli
· Label	desensitised explosives 4.1
	4.1
· Packing group	111
· DOT, IMDG, IATA	III
• Environmental hazards:	
• Marine pollutant:	No
	Not applicable.
· Special precautions for user	
· Danger code (Kemler):	40
· Danger code (Kemler): · EMS Number:	40 F-A,S-G
· Danger code (Kemler): · EMS Number: · Stowage Category	F-A,S-G A
· Danger code (Kemler): · EMS Number:	F-A,S-G
· Danger code (Kemler): · EMS Number: · Stowage Category	F-A,S-G A SG17 Stow "separated from" class 5.1

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

 \cdot Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

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· TSCA (Toxic Substances Control Act):

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· ISCA (IOAR SI	1
Substance is list	ed.
· Proposition 65	
· Chemicals know	vn to cause cancer:
Substance is not	listed.
· Chemicals know	vn to cause reproductive toxicity for females:
Substance is not	listed.
· Chemicals know	vn to cause reproductive toxicity for males:
Substance is not	
· Chemicals know	vn to cause developmental toxicity:
Substance is not	- · ·
· Carcinogenic co	ategories
	nental Protection Agency)
Substance is not	
	Limit Value established by ACGIH)
Substance is not	
	tional Institute for Occupational Safety and Health)
Substance is not	
GHS label elem The substance is Hazard pictogra	s classified and labeled according to the Globally Harmonized System (GHS).
The substance is Hazard pictogra GHS02 GHS	s classified and labeled according to the Globally Harmonized System (GHS).
The substance is • Hazard pictogra • GHS02 GHS • Signal word Wa	s classified and labeled according to the Globally Harmonized System (GHS). ms 507 erning
The substance is • Hazard pictogra • GHS02 GHS • Signal word Wa	s classified and labeled according to the Globally Harmonized System (GHS).
The substance is • Hazard pictogra • GHS02 • Signal word Wa • Hazard-determis silicon • Hazard stateme	s classified and labeled according to the Globally Harmonized System (GHS). 507 507 507 507 507 507 507 507
The substance is • Hazard pictogra • GHS02 GHS • Signal word Wa • Hazard-determis silicon • Hazard statement H228 Flammable	s classified and labeled according to the Globally Harmonized System (GHS). 507 507 Fining components of labeling: 115 126 solid.
The substance is • Hazard pictogra • GHS02 GHS • Signal word Wa • Hazard-determis silicon • Hazard stateme H228 Flammab H315 Causes sk	s classified and labeled according to the Globally Harmonized System (GHS). 507 507 507 507 507 507 507 507
The substance is • Hazard pictogra • GHS02 GHS • Signal word Wa • Hazard-determing silicon • Hazard stateme H228 Flammabh H315 Causes sk H319 Causes se	s classified and labeled according to the Globally Harmonized System (GHS). 507 507 Fining components of labeling: 115 126 solid.
The substance is Hazard pictogra GHS02 GHS Signal word Wa Hazard-determing silicon Hazard statement H228 Flammable H315 Causes sk H319 Causes se H335 May causes Precautionary s	s classified and labeled according to the Globally Harmonized System (GHS). 507 507 507 507 507 507 507 507
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The substance is • Hazard pictogra • GHS02 GHS • Signal word Wa • Hazard-determine silicon • Hazard statemene H228 Flammable H315 Causes ske H319 Causes see H335 May causes • Precautionary se P231 P301+P310 P305+P351+P3 P403+P233	 sclassified and labeled according to the Globally Harmonized System (GHS). 507 507 507 507 507 508 508 508 509 500 /ul>
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The substance is • Hazard pictogra • GHS02 GHS • Signal word Wa • Hazard-determine silicon • Hazard statemene H228 Flammable H315 Causes ske H319 Causes see H335 May causes • Precautionary se P231 P301+P310 P305+P351+P3 P403+P233 P422 P501	s classified and labeled according to the Globally Harmonized System (GHS). Solutions Solo Forming Solutions Ints le solid. in irritation. rious eye irritation. rious eye irritation. e respiratory irritation. tatements Handle under inert gas. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Signal f in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store in a well-ventilated place. Keep container tightly closed. Store contents under inert gas. Dispose of contents/container in accordance with local/regional/national/international regulations.



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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director
- · Date of preparation / last revision 07/15/2021 / -
- · Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Sol. 2: Flammable solids – Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3