ACS Material LLC

Version: 1.2 / EN Revision Date: 12/22/2022

SECTION 1: IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 **Product identifiers**

Product Name:ACS Material SiliconBrand:ACS Material LLCCAS-No.:7440-21-3

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

Identified uses : Laboratory chemicals, Manufacturing of substances

1.3 Details of the supplier of the safety data sheet

Company : ACS MATERIAL LLC 959 E Walnut Street, Suit Pasadena, CA 91106	e 100
USA Telephone : +1 (866)-227-0656	
Fax : +1 (781)-518-0284	

1.4 Emergency telephone number

Emergency Phone #: +1 (866)-227-0656

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Flammable solids (Category 2), H228 For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s) H228 Flam

Flammable solid.



Precautionary statement(s)			
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.		
P264	Wash skin thoroughly after handling.		
P280	Wear protective gloves/ eye protection/ face protection.		
Supplemental Hazard			
Statements	None		

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance name	:	Silicon
CAS-No	:	7440-21-3
EC-No.	:	231-130-8
Synonyms	:	Silicon
Linear formula	:	Si
Molecular weight	:	28.08 g/mol

Hazardous ingredients

Components	Concentration	CAS No.
Si	>99.9%	7440-21-3

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities: None known.

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, 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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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 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

SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media
 - Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture Silicon oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Suitable extinguishing media

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.



For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

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

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/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 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.

8.3 Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 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

Impervious clothing recommended. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- 1) Appearance
- 2) Odour
- 3) Odour Threshold

Form: powder Odourless No data available



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- 4) pH
- 5) Melting point/freezing point
- 6) Initial boiling point and boiling range
- 7) Flash point
- 8) Evaporation rate
- 9) Flammability (solid, gas)
- 10) Upper/lower flammability or explosive limits
- 11) Vapour pressure
- 12) Vapour density
- 13) Relative density
- 14) Water solubility
- 15) Partition coefficient: n- octanol/water
- 16) Auto-ignition temperature
- 17) Decomposition temperature
- 18) Viscosity
- 19) Explosive properties
- 20) Oxidizing properties
- 9.2 Other safety information

No data available

No data available Melting point: 1,410 °C (2,570 °F) No data available Not applicable No data available The substance or mixture is a flammable solid with the category 2.

No data available No data available No data available No data available Insoluble No data available Ignition point: 1400 °C (2552 °F) No data available No data available No data available 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

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials Strong oxidizing agents, Alkali carbonates, Calcium, cobalt difluoride, manganese trifluoride

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions - silicon oxides.

Other decomposition products - No data available

In the event of fire: see section 5.





SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 3,160 mg/kg(Silicon)

Skin corrosion/irritation No data available

Serious eye damage/eye irritation

Eyes - Rabbit(Silicon) Result: Mild eye irritation - 24 h (Draize Test)

Respiratory or skin sensitisation

No data available

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.

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: VW0400000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1	UN number			
	ADR/RID: 1346	IMDG: 1346	IATA: 1346	
14.2	UN proper shippin ADR/RID: SILIO MDG: SILICON P IATA: Silicon pow	CON POWDER, A OWDER, AMORF		
14.3	Transport hazard ADR/RID: 4.1	· · ·	IATA: 4.1	
14.4	Packaging group ADR/RID: III	IMDG: III	IATA: III	
14.5	Environmental haz ADR/RID: no		ollutant: no	IATA: I
14.6	Special precaution	ns for user		

No data available

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixtureThis safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.Chemical safety assessment

no

For this product a chemical safety assessment was not carried out.



SECTION 16: OTHER INFORMATION

Full text of H-Statement H228	s referred to under sections 2 and 3. Flammable solid.
HMIS Rating Health hazard:	2
Chronic Health Hazard: Flammability: Physical Hazard:	0 0
NFPA Rating Health hazard: Fire Hazard: Reactivity Hazard:	2 0 0

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