

SPI Supplies Division

Structure Probe, Inc.

P.O. Box 656 West Chester, PA 19381-0656 USA

Phone: 1-(610)-436-5400 Fax: 1-(610)-436-5755

spi3spi@2spi.com

<http://www.2spi.com>

Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: May 17, 2017

SPI#4204GCP-MB, 4204GCPS-MB, 4204GCPS-AB, 4204GCPS-AB,
4206GCP-MB, 3206GCPS-MB, 4206GCP-AB, 4206GCPS-AB,
4207GCP-MB,
4207GCP-AB, 4208GCP-MB, 4208GCP-AB, 4209GCP-MB,
4209GCP-AB,
4211GCP-MB, 4211GCPS-MB, 4211GCP-AB, 4212GCP-MB,
4212GCP-AB,
4213GCP-MB, 4213GCP-AB, 4214GCP-MB, 4214GCP-AB,
4215GCP-MB,
4215GCP-AB, 4216GCP-MB, 4216GCP-AB
SPI-Glas™ 11 Brand Glassy (Vitreous) Carbon Powders

Section 1.1: Identification

Chemical Name/Synonyms Glassy Carbon

Product or Trade Name SPI-Glas™ 11 Brand Glassy (Vitreous) Carbon Powder

CAS #'s 7440-44-0

Chemical Formula..... Element: C

Section 1.2: Relevant Uses/Restrictions

Laboratory chemical

Section 1.3: Supplier of the Safety Data Sheet

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sds@2spi.com

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Section 1.4: Emergency telephone number

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-741-5970

Toll-free phone: 1-(800)-424-9300 USA + Canada only

Section 2: Hazard Identification

2.1 Classification of the substance

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Combustible dust
May form combustible dust concentrations in air.

2.2 Label elements

Pictogram: None

Signal Word: Warning

Hazard statements: May form combustible dust concentrations in air.

Precautionary statements: None

Unknown percentage statements (if needed): None

2.3 Other Hazards:

Combustible dust

Hazardous Material Information System USA

Health 0
Fire Hazard 0
Reactivity 0
Personal Protection

NFPA Rating (estimated)

Health 0
Flammability..... 0
Reactivity 0

Section 3: Composition

3.1 Substances:

Glassy Carbon >99.99 %

Formula: C

CAS# 7440-44-0

EC# 231-153-3

No ingredients are hazardous according to OSHA criteria.

Section 4: First Aid Measures

General information: No special measures required.

After inhalation: No special measures required.

After skin contact: No special measures required. Wash with soap and water.

After eye contact: No special measures required. Flush eyes with water as a precaution.

After swallowing: No special measures required.

Section 5: Fire Fighting Measures

Suitable extinguishing agents: All methods of extinguishing are suitable.

Special hazards caused by material, its products of combustion or resulting gases: In case of fire carbon dioxide and under certain conditions carbon monoxide.

Additional Information: No information.

Section 6: Accidental Release Measures

Person-related safety precautions: No special measures required.

Measures of environmental protection: No special measures required.

Measures of cleaning/collecting: Collect mechanically.

Dispose of contaminated material as waste according to Section 13.

Section 7: Handling and Storage

Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Information about protection against explosives and fires:

Refined dust can combine with air to form an explosive mixture.

Requirements to be met by storerooms and containers:

No special measures required.

Information about storage in one common storage facility:

No special measures required.

Further information about storage conditions:

No information.

Section 8: Exposure Controls and Personal Protection

Additional information about design of technical systems:

No further data.

Breathing equipment:

At work with refined dust put on respirator.

Not necessary if the room is well-ventilated.

Protection of hands:

At work with splintered powder use protective gloves.

Protection of eyes:

At work with splintered powder, put on tightly sealed safety glasses.

Protection of body:

Protective work clothing.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form: Solid

Color: Black

Odor: Odorless

Change in conditions: Solid-gaseous over 3300°C

Melting point / melting range: > 3300°C

Boiling point/ Boiling range: not available

Flash point: Over 600°C

Danger of explosion: Refined dust causes risk of dust explosion.

Density: 1.45 g/cm³
Solubility in water: insoluble

9.2 Other information: No further relevant information available.

Section 10: Stability and Reactivity

Thermal decomposition / conditions to be avoided: No data available.
Dangerous reactions: Enrichment with refined dust causes risk of dust explosion.
Dangerous products of decomposition: CO₂ from 600°C in air; CO from 1000°C in air.

Section 11: Toxicological Information

Acute toxicity: Non-poisonous, biological compatible.
Primary irritant effect on the skin: No irritant effect.
Primary irritant effect on the eye: No irritant effect.
Other information: No information.
Additional toxicological information: No information.

Section 12: Ecological Information

General notes: Absolutely inert.

Section 13: Disposal Considerations

Recommendation: Remove according to local authority recommendations.
Uncleaned packaging: Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning.
Dispose of packaging according to regulations.

Section 14: Transport Information

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

Section 15: Regulatory Information

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

Designation according to EC guidelines:
This product is not subject to identification regulations under EC Directives and Ordinance on Hazardous Materials.

REACH: A registration number is not available for this substance.

SARA 302 Components: none

SARA 313 Components: none

SARA 311/312 Hazards: No SARA hazards
CAS# 7440-44-0 is listed on the NJ and PA List of Right to Know Components.
California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Observe the normal safety regulations when handling chemicals.

15.2 Chemical Safety Assessment
Date of preparation: May 17, 2017

Abbreviations and acronyms

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
CMRG: Chemical Manufacturer's Recommended Guidelines
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
AIHA: American Industrial Hygiene Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bio-accumulative and Toxicological
vPvB: very Persistent and very Bio-accumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
STEL: Short Term Exposure Limit
CEIL: Ceiling

Section 16: Other Information

Disclaimer of Liability:

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