

SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: July 13, 2016

05057-AB Leit-C-Plast™ Conductive Mounting Plastic

05064-AB Refill for Leit-C-Plast™ Conductive Mounting Plastic Kit

Section 1.1: Identification

Chemical Name/Synonyms Graphite in Polyisobutylene

Product or Trade Name Leit-C-Plast™

CAS #'s 7782-42-5; 9003-27-4

Chemical Formula..... Mixture

Section 1.2: Relevant Uses/Restrictions

Conducting material used in microscopy laboratory.

Section 1.3: Supplier of the Safety Data Sheet

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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)

Skin irritation (Category 2)

Serious eye irritation (Category 2)

Respiratory irritation (Category 3)

2.2 Label elements

Pictogram –



Signal Word: - Warning

Hazard statements:

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation

Precautionary statements:

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

2.3 Other Hazards:

Results of PBT and vPvB assessment:
Not applicable.

Hazardous Material Information System USA

Health 2
Fire Hazard 0
Reactivity 0
Personal Protection

NFPA Rating (estimated)

Health 2
Flammability 0
Reactivity 0

Section 3: Composition

3.1 Substances:

Not applicable

3.2 Mixtures:

Substance	CAS#	EC#	Percentage
Graphite	7782-42-5	231-955-3	~30%
Polyisobutylene	9003-27-4	n/a	~70%

Section 4: First Aid Measures

4.1 Description of first aid measures:

Observe good industrial hygiene practices and cleanliness.

After inhalation:

Supply fresh air. If symptoms occur, consult a doctor or physician.

After skin contact:

Wash thoroughly with soap and water. Product does not usually irritate the skin.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After ingestion:

If symptoms persist, consult a doctor or physician.

Self-protection of the first aider:

No further relevant information available.

4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

Section 5: Fire Fighting Measures

5.1 Extinguishing media – water, foam, carbon dioxide, dry extinguishing agents.

5.2 Special hazards arising from the substance or mixture – none.

Hazardous combustion products – Carbon monoxide and Carbon dioxide.

5.3 Advice for firefighters

Special protective equipment and precautions for firefighters – No special measures required.

Section 6: Accidental Release Measures

6.1 Personal precautions – None required.

6.2 Environmental precautions – No special measures required.

6.3 Methods and material for containment and cleaning up – Dispose of material collected according to all regulations.

6.4 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.

Section 7: Handling and Storage

7.1 Precautions for safe handling – No special measures required.

Protective measures – No special measures required.

Advice on general hygiene conditions – Ensure good ventilation / exhaustion at the workplace.

- Prevent formation aerosols.

7.2 Conditions for safe storage, including any incompatibilities – no special requirements.

7.3 Specific end uses

Conducting material used in microscopy laboratory.

Not intended for clinical or medical uses.

Section 8: Exposure Controls and Personal Protection

8.1 Control parameter and Personal Protection

Workplace exposure limits:

Natural Graphite (CAS# 7782-42-5)			
ACGIH TWA (mg/m ³)	2 mg/m ³		Pneumoconiosis
OSHA (Table Z-3)	15 mppcf		million particles per cubic foot of air

Biological limit values – No additional information available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

8.2.2 Individual protection measures

Breathing protection – In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

Hand protection – Gloves. The material should be impermeable and resistant to the product / the substance / the preparation.

Eye protection – Chemical splash goggles.

Clothing – Normal laboratory clothing.

8.2.3 Environmental exposure controls

No additional information available.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Black, solid

Odor: Odorless

Odor threshold: Not determined

pH: Not determined

Melting point/Freezing point: Not determined

Boiling point/Boiling point range: Not determined

Flash Point: Not determined

Evaporation rate: Not determined

Flammability (solid, gas): Not applicable

Upper/lower flammability or explosive limits:

Lower: Not determined

Upper: Not determined

Vapor Pressure: Not determined

Density: 0.93 g/cm³

Vapor density: Not determined

Relative density: Not determined

Solubility: Insoluble

Partition coefficient (n-octanol/water): Not determined

Ignition temperature: <340 ° C

Decomposition temperature: Not determined

Viscosity: Not determined

Explosive properties: Not determined

Oxidizing Properties: Not applicable

9.2 Other information

No other information available.

Section 10: Stability and Reactivity

10.1 Reactivity – This preparation is not reactive.

10.2 Chemical Stability – This preparation is stable under conditions of normal use.

10.3 Possibility of Hazardous Reactions – No further relevant information available.

10.4 Conditions to avoid – Heat, ignition sources.

10.5 Incompatible materials – No further relevant information available.

10.6 Hazardous decomposition products – CO and CO₂ in case of an external fire.

Section 11: Toxicological Information

Information on the likely routes of exposure

11.1 Information on toxicological effects

a. acute toxicity – This product is not toxic.

b. skin corrosion/irritation – Skin irritation – category 2.

c. serious eye damage/irritation – Serious eye irritation – category 2.

d. respiratory of skin sensitization – Respiratory irritation – category 3.

This product is not a skin or inhalation sensitizer.

e. germ cell mutagenicity – no relevant information available.

f. carcinogenicity – not listed as carcinogenic by IARC(International Agency for Research on Cancer), by NTP(National toxicology Program), or by OSHA-Ca(Occupational Safety Health Administration).

g. reproductive toxicity – no relevant information available.

h. STOT-single exposure – no relevant information available.

i. STOT-repeated exposure – no relevant information available.

j. aspiration hazard – no relevant information available.

Section 12: Ecological Information

12.1 Toxicity – this product is not toxic.

12.2 Persistence and degradability – non-degradable.

- 12.3 Bio-accumulative potential – This product is not expected to have any bio-accumulative potential.
12.4 Mobility in soil – This product is immobile in soil.
12.5 Results of PBT and vPvB assessment – No relevant information available.
12.6 Other adverse effects – none

Section 13: Disposal Considerations

13.1 Waste treatment methods

Must not be disposed of together with household garbage.
Do not allow product to reach sewage system.
Dispose of in accordance with all government regulations.

Section 14: Transport Information

DOT: Not regulated.
IATA: Not regulated.
IMDG: Not regulated.

Section 15: Regulatory Information

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

TSCA (Toxic Substances Control Act): None of the ingredients is listed.
SARA Section 355 (extremely hazardous substances): None of the ingredients is listed.
SARA Section 313 (specific toxic chemical listings): None of the ingredients is listed.
California Proposition 65:
Chemicals known to cause cancer: None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females – None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males – None of the ingredients is listed.
Chemicals known to cause developmental toxicity – None of the ingredients is listed.
EPA (Environmental Protection Agency) – None of the ingredients is listed.
TLV (Threshold Limit Value established by ACGIH) – None of the ingredients is listed.
NIOSH-Ca (National Institute for Occupational Safety and Health) – None of the ingredients is listed.

Germany:

Special labelling Rule: EC - Identification.
Notes on employment restriction: none
TA – Luft (Technical Instruction on Air Quality Control): none
Hazardous incident ordinance: none
Water hazard class: 0 (not hazardous to water)
Other requirements, restrictions, and prohibition regulations:
Technical regulations for hazardous materials: none
Chemical prohibition regulations: none
Cosmetic regulations: none

15.2 Chemical Safety Assessment

No further relevant information available.

Date of preparation: 13 July 2016

Abbreviations and acronyms

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
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

Section 16: Other Information

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