

SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: August 7, 2019

SPI Catalog # 05075-AB

SPI Supplies® Brand Thinner for Leit-C™ CCC
Conductive Carbon Cement

Section 1.1: Identification

Chemical Name/Synonyms Carbon Cement Thinner

Product or Trade Name SPI Supplies® Brand Thinner for Leit-CT CCC Conductive Carbon Cement

CAS #'s 123-86-4; 108-65-6; 67-64-1; 1330-20-7

Chemical Formula..... Mixture

Section 1.2: Relevant Uses/Restrictions

Thinner for LEIT-C™ CCC Carbon Cement

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)

Flammable Liquid, Category 2

Acute Toxicity, Category 4

Eye Irritant, Category 2A

STOT SE, Category 3

2.2 Label elements

Pictogram



Signal Word: Danger

Hazard statements:

H225: Highly flammable liquid and vapor.

H332: Harmful if inhaled.

H319: Causes serious eye irritation

H335 + H336: May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary statements:

P210: Keep away from heat/ sparks/ open flames/ hot surfaces. – No smoking.

P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P280: Wear protective gloves/ eye protection/ face protection.

P240: Ground/bond container and receiving equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P264: Wash thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P304 + P341: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312: Call a poison center/ doctor if you feel unwell.

P337 + P313: If eye irritation persists: Get medical advice/ attention.

P370 + P378: In case of fire: Use for extinction: CO₂, powder, or water spray.

P405: Store locked up.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P403 + P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

2.3 Other Hazards:

No additional information available.

Hazardous Material Information System USA

Health 0

Fire Hazard 3

Reactivity 0

Personal Protection

NFPA Rating (estimated)
Health 0
Flammability..... 3
Reactivity 0

Section 3: Composition

Chemical characterization: Mixtures
Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

Component	CAS Number	Percentage
n-Butyl acetate	123-86-4	30-60%
Methoxypropyl acetate	108-65-6	20-35%
Acetone, reagent grade	67-64-1	10-25%
Xylene	1330-20-7	2.5-5.5%

Section 4: First Aid Measures

4.1 Description of first aid measures:

Inhalation:

After inhalation: Supply fresh air; consult doctor in case of complaints.

Skin Contact:

After skin contact: Generally the product does not irritate the skin.

Eye Contact:

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

Ingestion:

After swallowing: If symptoms persist, consult a doctor.

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:

Suitable extinguishing media: CO₂, extinguishing powder or water spray.

Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

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

Wear protective equipment.
Keep unprotected persons away.

6.2 Environmental precautions

Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

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

Ensure good ventilation/ exhaustion at the workplace.
Prevent formation of aerosols.
Keep ignition sources away – Do not smoke.
Protect from heat.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool location.
Keep receptacle tightly sealed.
Store in cool, dry conditions in well-sealed receptacles.
Protect from heat and direct sunlight.

Information about storage in one common storage facility: Not required.

7.3 Specific end uses

Thinner for LEIT-C™ CCC Carbon Cement
This material is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

Section 8: Exposure Controls and Personal Protection

8.1 Control parameter and Personal Protection

Workplace exposure limits

Components with limit values that require monitoring at the workplace:

n-Butyl acetate, CAS# 123-86-4

PEL: Long-term value: 710 mg/m³, 150 ppm

REL: Short-term value: 950 mg/m³, 200 ppm

Long-term value: 710 mg/m³, 150 ppm

TLV: Short-term value: 950 mg/m³, 200 ppm
Long-term value: 713 mg/m³, 150 ppm

2-Methoxy-1-methylethyl acetate, CAS# 108-65-6
WEEL Long-term value: 50 ppm

Acetone, Reagent Grade, CAS# 67-64-1
PEL Long-term value: 2400 mg/m³, 1000 ppm
REL Long-term value: 590 mg/m³, 250 ppm
TLV Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm
Long-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm
BEI

Xylene, CAS# 1330-20-7
PEL Long-term value: 435 mg/m³, 100 ppm
REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI

Biological limit values

Acetone, Reagent Grade, CAS# 67-64-1
50 mg/L
Medium: urine
Time: end of shift
Parameter: Acetone (nonspecific)

Xylene, CAS# 1330-20-7
1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methylhippuric acids

Additional information: The lists that were valid during the creation were used as basis.

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.
Avoid contact with the skin.

8.2.2 Individual protection measures

Breathing equipment:

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.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and as to be observed.

Eye protection:

Tightly sealed splash goggles.

8.2.3 Environmental exposure controls

No further relevant information available.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Clear, liquid

Odor: pungent

Odor threshold: Not determined

pH: Not determined

Melting point/Freezing point: Not determined

Boiling point/Boiling point range: Not determined.

Flash Point: No data available

Evaporation rate: Not determined

Flammability (solid, gas): Not flammable

Autoignition temperature: <400 °C (<752 °F)

Upper/lower flammability or explosive limits

Lower: No data available

Upper: No data available

Vapor Pressure at 20 °C (68 °F): No data available.

Density at 20 °C (68 °F): No data available.

Vapor density: Not determined

Relative density: Not determined

Solubility in water: Fully miscible

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

Auto-igniting: Product is not self-igniting

Decomposition temperature: not determined

Viscosity

Dynamic: Not determined

Kinematic: Not determined

Explosive properties: Product is not explosive.

However, formation of explosive air/vapor mixtures is possible.

Oxidizing Properties: No information available.

Solvent content:

Organic solvents: 100.0 %

VOC content: ~80 %

9.2 Other information: No further relevant information available.

Section 10: Stability and Reactivity

10.1 Reactivity

10.2 Chemical Stability

10.3 Possibility of Hazardous Reactions: No decomposition if used according to specifications.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

Section 11: Toxicological Information

Information on the likely routes of exposure

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

11.1 Information on toxicological effects

a. acute toxicity

b. skin corrosion/irritation – No irritant effect

c. serious eye damage/irritation – Irritating effect

d. respiratory or skin sensitization – No sensitizing effects known

e. germ cell mutagenicity – No additional relevant information available.

f. carcinogenicity:

IARC (International Agency for Research on Cancer): Xylene, CAS# 1330-20-7 : 3

NTP (National Toxicology Program): None of the ingredients is listed.

OSHA-Ca (Occupational Safety Health Administration): None of the ingredients is listed.

- g. reproductive toxicity – No additional relevant information available.
- h. STOT-single exposure – No additional relevant information available.
- i. STOT-repeated exposure – No additional relevant information available.
- j. aspiration hazard – No additional relevant information available.

Section 12: Ecological Information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability – No further relevant information available.

12.3 Bio-accumulative potential – No further relevant information available.

12.4 Mobility in soil – No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Other adverse effects – No further relevant information available.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage.

Do not allow product to reach sewage system.

Uncleaned packagings:

Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

Section 14: Transport Information

DOT

UN#: UN1263

Paint Related Material

Hazard Class: 3

Flammable Liquid

Packing Group: III

IATA

UN#: UN1263

Paint Related Material

Hazard Class: 3

Flammable Liquid

Packing Group: III

Hazard Labels: 3

EmS Number: F-E, S-D

Marine pollutant: no

Section 15: Regulatory Information

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

SARA Section 313: Specific toxic chemical listings:
Xylene, CAS# 1330-20-7 is listed.

SARA Section 355: Extremely hazardous substances:
None of the ingredients is listed.

TSCA (Toxic Substances Control Act)
All ingredients are listed on the TSCA Active Inventory List.

California Prop. 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.

Carcinogenic Categories:

EPA (Environmental Protection Agency)		
Acetone	CAS# 67-64-1	Category: I
Xylene	CAS# 1330-20-4	Category: I

ACGIH TLV (Threshold Limit Values)

Acetone	CAS# 67-64-1	Category: A4
Xylene	CAS# 1330-20-7	Category: A4

NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

Massachusetts Right-to-Know List:

n-Butyl acetate	CAS# 123-86-4
Acetone	CAS# 67-64-1
Xylene	CAS# 1330-20-7

Pennsylvania Right-to-Know List:

n-Butyl acetate	CAS# 123-86-4
2-Methoxy-1-methylethyl acetate	CAS# 108-65-6
Acetone	CAS# 67-64-1
Xylene	CAS# 1330-20-7

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Date of Preparation: 07 August 2019

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:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

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