

# SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

# Safety Data Sheet

Date Effective: April 8, 2015

SPI # 04982-AB

SPI-TAC™ Liquid Adhesive Mountant

## Section 1: Identification

Chemical Name/Synonyms..... SPI-TAC™ Liquid Adhesive Mountant

Chemical family..... mixture

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-527-3887

Worldwide FAX: 1-(703)-741-6090

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

Product or Trade Name..... SPI-TAC™ Liquid Adhesive Mountant

CAS #'s..... 67-64-1; 141-78-6; proprietary resins

Chemical Formula..... unknown

### EMERGENCY OVERVIEW

OSHA Hazards: Flammable Liquid; Target Organ Effect; Irritant

Target Organs: Liver, Kidney, Central Nervous System, Respiratory System, Skin, Eyes

### GHS Classification

Flammable liquids (Category 2)

Skin irritation (Category 3)

Eye irritation (Category 2A)

Specific organ toxicity – single exposure (Category 3)

Pictogram



Signal word: Danger

Hazard Statements:

H225 Highly flammable liquid and vapour

H316 Causes mild skin irritation

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

Precautionary Statements:

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

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

P 305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazardous Material Information System USA

Health..... 2  
Fire Hazard..... 3  
Reactivity..... 0  
Personal Protection.....

NFPA Rating (estimated)

Health..... 2  
Flammability..... 3  
Reactivity..... 0

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## Section 2: Composition

Name	CAS#	EU#	Percentage
Acetone	67-64-1	200-662-2	91%
Ethyl Acetate	141-78-6	205-500-4	4%
Proprietary resins	n/a	n/a	5%

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## Section 3: Hazard Identification

Potential health effects (acute and chronic): Causes Eye Irritation. Causes respiratory tract irritation. Breathing vapors may cause drowsiness and dizziness. Prolonged or repeated contact may dry the skin and cause irritation of the skin.

**Target Organs:** liver, kidney, central nervous system, respiratory system, eyes, skin.

Symptoms of exposure:

**Effects of eye exposure:** Causes eye irritation. May cause burning sensation, redness, tearing, inflammation, and possible corneal damage.

**Effects of skin contact:** Prolonged and/or repeated contact may cause drying or cracking of the skin. May be absorbed through the skin.

**Effects of ingestion:** May cause gastrointestinal irritation. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

**Effects of inhalation:** Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause motor incoordination and speech abnormalities.

**Chronic Effects:** Prolonged or repeated skin contact may cause dermatitis. Chronic inhalation may cause central nervous system effects, respiratory tract irritation and/or motor incoordination and speech abnormalities.

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## Section 4: First Aid Measures

**Eyes:** Immediately flush thoroughly with water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

**Skin:** Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water for at least 15 minutes, while removing contaminated clothing and shoes. Wash clothing thoroughly before reusing.

**Inhalation:** Get medical aid immediately. Remove to fresh air immediately. Give artificial respiration if breathing has stopped. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased, apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

**Ingestion:** Do NOT induce vomiting. If conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Notes to Physician: Treat symptomatically and supportively.

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## Section 5: Fire Fighting Measures

Flash Point (estimated on CAS# 67-64-1):	-4 F°
Autoignition Temperature:	869 F°
Explosion Limits	Lower: 2.5%
	Upper: 12.8%

### Fire Extinguishing Media:

For small fires use dry chemical, CO<sub>2</sub>, water spray, or "alcohol" foam. For large fires, use water spray, fog or alcohol-resistant foam. Water may be ineffective. Do NOT use straight streams of water. Cool containers with flooding quantities of water until well after fire is out.

### Firefighting Procedure:

Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, full protective gear. During a fire containers can build up pressure if exposed to heat or flame. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or thermal combustion. May be ignited by heat, sparks, or flame. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

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## Section 6: Accidental Release Measures

### Spill Response:

General Information: Wear suitable protective equipment listed under exposure/personal protection, including self contained breathing apparatus.

Spills/Leaks: Avoid runoff into storm sewers and ditches which lead to

waterways. Avoid all sources of ignition. Provide ventilation. Absorb spill with an absorbent, non-combustible material such as earth, sand or vermiculite and place in suitable container for proper disposal, using a spark-proof tool. A vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

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## Section 7: Handling and Storage

### Handling:

Use only in a well-ventilated area. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with heat, sparks and flame. Empty containers may contain residue - do not pressurize, or expose empty containers to heat, sparks or open flames. Keep tightly closed. Avoid ingestion or inhalation.

### Storage:

Keep away from sources of ignition. Keep away from heat, sparks, and flame. Store in a tightly closed container. Store in a flammables area, away from incompatible materials. Store in cool, dry, well ventilated area.

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## Section 8: Exposure Controls and Personal Protection

An eyewash facility and a safety shower should be available. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### Airborne Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA - Final PEL
Acetone	500 ppm TWA	250 ppm TWA	1000 ppm TWA
	750 ppm STEL	590 mg/m <sup>3</sup> TWA 2500 ppm IDHL	2000 mg/m <sup>3</sup> TWA
Ethyl Acetate	400 ppm TWA	400 ppm TWA	400 ppm TWA
		1,400 mg/m <sup>3</sup> TWA	1,400 mg/m <sup>3</sup> TWA

### Personal Protective Equipment:

**Eyes:** Wear chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or the European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or the European Standard EN149. Always use a NIOSH or European Standard approved respirator when necessary.

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## Section 9: Physical and Chemical Properties

Boiling Point.(760mm Hg), (based on CAS# 67-64-1): 133.2°F  
Formula Weight.(g/mol): Not available

pH: Not available  
Melting Point: Not available  
Vapor Pressure.(mm Hg): Not available  
Vapor Density/Air is 1: Not available  
Solubility In Water: soluble  
Appearance and Color..... colorless  
Specific Gravity(H2O=1): Not available  
Evaporation Rate (in N-Butyl acetate): Not available  
Odor: sweet smell  
Molecular Formula: Not available

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## Section 10: Stability and Reactivity

**Stable:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Hazardous Polymerization:** Has not been reported.

**Hazardous Decomposition Products:** CO<sub>x</sub> (Carbon Dioxide / Carbon Monoxide), irritating and toxic fumes and gases

**Conditions to avoid:** High temperatures, ignition sources

**Materials to avoid:** Strong oxidizing agents; Strong acids.

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## Section 11: Toxicological Information

RTECS #: CAS# 67-64-1: AL3150000  
CAS# 141-78-6: AH5425000

Toxicity data: CAS# 67-64-11  
Draize test, Rabbit, eye: 20mg Severe  
Draize test, Rabbit, eye: 20mg/24H Mod.  
Draize test, Rabbit, skin: 500mg/24H Mild  
Inhalation, Mouse LC50: 44gm/m<sup>3</sup>/4H  
Inhalation, rat LC50: 50100mg/m<sup>3</sup>/8H  
Oral, Mouse LD50: 3 gm/kg  
Oral, Rabbit LD50: 5340 mg/kg  
Oral, rat LD50: 5800 mg/kg  
Dermal, guinea pig LD50: >9400uL/kg

Toxicity data: CAS# 141-78-6  
LD50, Rat, oral: 5,620 mg/kg  
LC50, Mouse, Inhalation: 2 hours – 45,000 mg/m<sup>3</sup>  
LD50, Rabbit, dermal: >18,000 mg/Kg

Carcinogenicity:

CAS# 67-64-1: A4 - Not listed by ACGIH or IARC

CAS# 141-78-6: Not listed by ACGIH, IARC, NIOSH, NTP or OSHA

Epidemiology: No information available

Teratogenicity: No information available

Reproductive effect:

67-64-1: Reproductive - Paternal Effects - spermatogenesis,

including genetic material, sperm morphology, motility and count.

Neurotoxicity: No information available

Mutagenicity:

67-64-1: Sex chromosome loss and nondisjunction

(Yeast-Saccharomyces cerevisiae)= 47600 ppm;

Cytogenetic analysis (Rodent-hamster Fibroblast)= 40 gm/L

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## Section 12: Ecological Information

CAS#141-78-6

CAS# 67-64-1

Ecotoxicity:

Fish (LC50):

Fathead Minnow:

230 mg/L

7280-8120 mg/L

Bluegill:

8300 mg/L

Environmental:

Terrestrial:

mobile in soil

Volatile from

Soil surface

Degraded

photochem.

In air/L/2=10d

volatilizes,

leaches, and

biodegrades

when released

to soil.

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## Section 13: Disposal Considerations

Consult state and local hazardous waste regulations to ensure complete and accurate classification.

US EPA guidelines for hazard classification determination are listed in 40 CFR Parts 261.3.

RCRA P-Series: None listed

RCRA U-Series: CAS# 67-64-1: waste number U002 (Ignitable Waste)

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## Section 14: Transport Information

### IATA Classification:

Shipping Name Adhesives, containing a flammable liquid

Hazard Class 3

UN Number UN1133

Packing Group II

### IMDG Classification:

Shipping Name Adhesives, containing a flammable liquid

Hazard Class 3

UN Number UN1133

Packing Group II

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## Section 15: Regulatory Information

### US FEDERAL:

#### TSCA

CAS# 67-64-1 is listed on the TSCA Inventory.  
CAS# 141-78-6 is listed on the TSCA Inventory.

#### Health & Safety Reporting List

Not listed

#### Chemical Test Rules

Not listed

#### Section 12b

CAS# 67-64-1: 4/12b  
CAS# 141-78-6: 4/12b

#### TSCA Significant New Use Rule

Not listed on SNUR under TSCA.

#### SARA

##### Section 302 (RQ)

CAS# 67-64-1: final RQ = 5000 pounds (2270 kg)  
CAS# 141-78-6: final RQ = 5000 pounds (2270 kg)

##### Section 302 (TPQ)

Not listed

#### SARA Codes

CAS# 67-64-1: acute, chronic, flammable  
CAS# 14178-6: flammable

#### Section 313

Not listed

#### Clean Air Act:

Not listed

#### Clean Water Act:

Not listed

#### OSHA:

Not listed as highly hazardous by OSHA.

#### STATE:

CAS# 67-64-1 and CAS# 141-78-6 can be found on the following state right to know lists:  
California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

#### European/International Regulations

Hazard Symbols: XI F

Risk Phrases:

R11 Highly flammable  
R36 Irritating to eyes  
R 66 Repeated exposure may cause skin dryness or cracking  
R 67 Vapors may cause drowsiness and dizziness

Safety Phrases:

S9 Keep container in a well-ventilated place  
S16 Keep away from sources of ignition - No smoking  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

WGK (Water Danger/Protection)

67-64-1:1  
141-78-6:1

Canada - DSL/NDSL

CAS#'s 67-64-1 and 141-78-6 are listed on Canada's DSL list.

Canada - WHMIS

Has WHMIS classification of B2, D2B

Canada Ingredient Disclosure List

Is listed on the Canadian Ingredient Disclosure List.

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## 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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