

SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: October 20, 2017

SPI Catalog # 05058-AB

Tempfix™ Mounting Adhesive for SEM Applications

Section 1.1: Identification

Chemical Name/Synonyms Polyisobutylene resin

Product or Trade Name Tempfix™ Mounting Adhesive

CAS #'s none

Chemical Formula..... none

Section 1.2: Relevant Uses/Restrictions

SEM mounting adhesive

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)

Acute toxicity (category 4, skin)

Acute toxicity (category 4, inhalation)

2.2 Label elements

Pictogram



Signal Word: Warning

Hazard statements:

- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H319 Causes serious eye irritation.

Precautionary statements:

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P322 Specific measures (see on this label).
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P420 Store away from flammable substances.
- P501 Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

2.3 Other Hazards:

Results of PBT and vPvB assessment:

- PBT: Not applicable.
- vPvB: Not applicable.

Hazardous Material Information System USA

- Health 2
- Fire Hazard 1
- Reactivity 0
- Personal Protection

NFPA Rating (estimated)

- Health 2
- Flammability..... 1
- Reactivity 0

Section 3: Composition

3.1 Substances:

Description: Polymer combination of resin and greases.
CAS #: None given

Section 4: First Aid Measures

4.1 Description of first aid measures:

If accidental overexposure is suspected:

General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness, place patient stably in side position for transportation.

Skin Contact: Generally the product does not irritate the skin.

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

Ingestion: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed: No additional relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed: No additional relevant information available.

Section 5: Fire Fighting Measures

5.1 Extinguishing media: Use fire-fighting measures appropriate to the surrounding area.

Unsuitable fire-fighting substances: Water stream.

5.2 Special hazards arising from the substance or mixture: No data available.

Hazardous combustion products: Fire or excessive heat may cause production of hazardous decomposition products.

5.3 Advice for firefighters

Special protective equipment and precautions for firefighters: Use independent breathing protection equipment.

Section 6: Accidental Release Measures

6.1 Personal precautions: Not required.

6.2 Environmental precautions: No special measures required.

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 information on disposal.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

Protective measures:

Ensure good ventilation/ exhaustion at the workplace.
Prevent formation of aerosols.

Advice on general hygiene conditions: Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities:

No special requirements.
Keep receptacle tightly sealed.

7.3 Specific end uses

SEM mounting adhesive.

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: Not required.

Biological limit values: Not required.

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Ensure good ventilation / exhaustion.

8.2.2 Individual protection measures:

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.

Breathing equipment: In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure, use a self-contained respiratory protective device.

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

Skin protection: No data available.

Eye protection: Tightly-sealed goggles.

Additional clothing and/or equipment: No data available.

8.2.3 Environmental exposure controls:

OSHA PEL: No data available.
ACGIH TLV: No data available.
NTP: Not listed.
IARC: Not listed.
OSAH: Not regulated.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance and physical state: Fluid

Odor: Characteristic

Odor threshold: No data available.

pH: No data available.
Specific gravity (H₂O=1): ~0.95
Melting point/Freezing point: Not determined.
Boiling point/Boiling point range: > 400 °C
Flash Point: > 200 °C
Evaporation rate: Not determined.
Flammability (solid, gas): Not flammable.
Upper/lower flammability or explosive limits: Not determined.
Vapor Pressure: Not determined.
Vapor density: Not determined.
Relative density: Not determined.
Solubility in / Miscibility with Water: Not miscible or difficult to mix.
Partition coefficient (n-octanol/water): Not determined.
Auto-ignition temperature: Not determined.
Decomposition temperature: Not determined.
Viscosity: Not determined.
Explosive properties: Not determined.
Oxidizing Properties: Not determined.
Organic Solvents: 0.0%

9.2 Other information: No further relevant information available.

Section 10: Stability and Reactivity

10.1 Reactivity: No data available

10.2 Chemical Stability: Stable

10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not take place.

10.4 Conditions to avoid: Strong oxidizers, excessive heat, sparks or open flame, dust accumulation

10.5 Incompatible materials: Chlorine, Nitric acid, Strong oxidizing agents

10.6 Hazardous decomposition products: Hydrocarbon, acetic acid by thermal decomposition.

Section 11: Toxicological Information

Information on the likely routes of exposure

11.1 Information on toxicological effects

Primary irritant effect:

On the skin – No irritant effect.

On the eye – No irritating effect.

Sensitization – No sensitizing effects known.

Not listed by IARC, NTP, or OSHA-Ca as carcinogen.

Section 12: Ecological Information

12.1 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: 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. Dispose in compliance with all federal, state, and local laws governing disposal of materials.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

RCRA 40 CFR 261 Classification: None.

Section 14: Transport Information

DOT: Not regulated.

IATA: Not regulated.

IMDG: Not regulated.

Marine Pollutant: No

Canadian TDG: Not regulated.

Section 15: Regulatory Information

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

US Federal Regulations:

SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA: None

SARA Title III: None

SARA 313: Not listed

SARA 355: Not listed

RCRA: None

TSCA: Component listed: None

CERCLA: None

US State Regulations:

California Prop. 65: Not listed.

International Regulations:

Canada WHMIS: No data.

Europe EINECS Numbers: None

15.2 Other Information:

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Date of Preparation: 20 October 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:

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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