

SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: May 30, 2019

SPI Catalog # 01300-XX – Resin Component

SPI Cold Mount Epoxy Kit – Resin Component

Section 1.1: Identification

Chemical Name/Synonyms Cold Mount Epoxy Resin Component

Product or Trade Name SPI Cold Mount Epoxy Kit, Resin Component

CAS #'s 25068-38-6; 68600-97-2

Chemical Formula..... Mixture

Section 1.2: Relevant Uses/Restrictions

Resin component of embedding epoxy kit.

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):

Aquatic, Chronic (Category 2)

Skin Irritant (Category 2)

Eye Irritant (Category 2A)

Skin Sensitization (Category 1)

2.2 Label elements

Pictogram



Signal Word: Warning

Hazard-determining components of labeling:

Reaction Product of Bisphenol A and Epichlorohydrin oxirane, mono[C12-14-alkyloxy)methyl] derivs
Alkyl C12-C14 Glycidyl ether

Hazard statements:

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H310 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children
- P103 Read label before use
- P321 Specific treatment (see on this label)
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P273 Avoid release to the environment
- P264 Wash thoroughly after handling
- P272 Contaminated work clothing should not be allowed out of the workplace
- P302 + P352: If on skin wash with plenty of soap and water.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- P362 Take off contaminated clothing and wash before reuse
- P322 + P313 If skin irritation occurs get medical advice/attention.
- P337 + P313 If eye irritation persists get medical advice/attention
- P391 Collect spillage
- P501 Dispose of contents/container to a licensed waste disposal service.

2.3 Other Hazards:

Hazardous Material Information System USA

Health 1
Fire Hazard 1
Reactivity 0
Personal Protection

NFPA Rating (estimated)

Health 1
Flammability..... 1
Reactivity 0

Section 3: Composition

3.1 Substances:

3.2 Mixtures:

CAS #: 25068-38-6; EC #: 500-033-5 Reaction product of Bisphenol A and Epichlorohydrin 50-100%

CAS #: 68609-97-2; 271-846-8 oxirane, mono[C12-14-alkyloxy)methyl] derivs 5-<10 %
Alkyl C12-C14 Glycidyl Ether

Section 4: First Aid Measures

4.1 Description of first aid measures:

Description of First Aid Measures:

After inhalation:

Supply fresh air and to be sure seek medical attention. In case of unconsciousness, place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

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

After swallowing:

If symptoms persist consult a doctor.

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 agents: Use fire-fighting measures that suit the environment.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

5.3 Hazardous combustion products:

No further relevant information available.

5.4 Advice for firefighters:

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

Section 6: Accidental Release Measures

6.1 Personal precautions:

No further relevant information available.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
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:

Protective measures:

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

Information about protection against explosions and fires:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities:

No special requirements.
No incompatibilities listed.
Keep receptacle tightly sealed.

7.3 Specific end uses:

Resin component of embedding epoxy kit.
No further relevant information available.
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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

Biological limit values: No relevant information available.

8.2 Exposure controls:

8.2.1 General protective and hygienic 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.

8.2.2 Individual protection measures:

Breathing equipment:

Protection of hands:

Protective gloves.

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 must be in 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 has to be observed.

Eye protection:

Tightly sealed 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: Amber colored liquid

Odor: Characteristic

Odor threshold: Not determined

pH: Not determined

Melting point/Freezing point: Undetermined

Boiling point/Boiling point range: Undetermined

Flash Point: 110 °C (230 °F)

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 at 20 °C (68 °F): 1.1414 g/cm³ (9.583 lbs/gal)

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-igniting: Product is not self-igniting

Decomposition temperature: Not determined

Viscosity: Not determined

Organic solvents: 0.0 %

9.2 Other information: No further relevant information available

Section 10: Stability and Reactivity

10.1 Reactivity:

No relevant information available.

10.2 Chemical Stability:

Thermal decomposition: No decomposition if used according to specifications.

10.3 Possibility of Hazardous Reactions:

No dangerous reactions known.

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

11.1 Information on toxicological effects:

A. Acute toxicity: No data available.

B. Skin corrosion/irritation:

Irritant to skin and mucous membranes.

C. Serious eye damage/irritation:

Irritating effect to the eye.

D. Respiratory or skin sensitization:

Sensitization possible through skin contact.

E. Germ cell mutagenicity: No further relevant information available.

F. Carcinogenicity:

IARC (International Agency for Research on Cancer): None of the ingredients is listed.

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 further relevant information available.

H. STOT-single exposure: No further relevant information available.

I.. STOT-repeated exposure: No further relevant information available.

J. Aspiration hazard: No further relevant information available.

Section 12: Ecological Information

12.1 Toxicity:

Ecotoxicological effects:

Toxic for fish.

Toxic for aquatic organisms.

Poisonous for fish and plankton in water bodies.

Danger to drinking water if even small quantities leak into the ground.

Do not allow product to reach ground water, water course, or sewage system.

Water hazard class 2 (Self-assessment): hazardous for water.

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:

Recommendation:

Disposal must be made according to official regulations.

Section 14: Transport Information

DOT:

UN Number: not regulated

Proper shipping name: not regulated

Packing group: not regulated

IATA:

UN Number: UN3082

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Epoxy Resin)

Transport Hazard Class: 9 Miscellaneous dangerous substances and articles

Label: 9

Packing Group: III

IMDG:

UN Number: UN3082

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Epoxy Resin), MARINE POLLUTANT

Transport Hazard Class: 9 Miscellaneous dangerous substances and articles

Label: 9

Packing Group: III

Environment hazards: Product contains environmentally hazardous substances: Epoxy Resin.

Marine pollutant: Yes

Special marking (IATA): Symbol (fish and tree)

Special precautions for user: Warning: Miscellaneous dangerous substances and articles

Danger code (Kemler): 90

EMS Number: F-A,S-F

**Transport in bulk according to Annex II of
MARPOL 73/78 and the IBC Code:** Not applicable.

Transport/Additional information:

IMDG:

Limited quantities (LQ): 5L

Excepted quantities (EQ): Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN3082, Environmentally hazardous substances, liquid, n.o.s.
(Epoxy Resin), 9 III

Section 15: Regulatory Information

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

U.S. Government Regulations:

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

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.

TSCA (Toxic Substances Control Act):

CAS # 25068-38-6 is on the TSCA Active Inventory List.

CAS # 68609-97-2 is on the TSCA Active Inventory List.

Proposition 65 (Chemicals known to cause cancer, reproductive toxicity for females, reproductive toxicity for males, or developmental toxicity): None of the ingredients is listed.

Carcinogenic categories:

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.

GHS Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms:



GHS07



GHS09

Hazard-determining components of labeling:

Reaction Product of Bisphenol A and Epichlorohydrin oxirane, mono[C12-14-alkyloxy)methyl] derivs
Alkyl C12-C14 Glycidyl ether

Hazard statements:

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Toxic to aquatic life with long lasting effects.

Precautionary statements:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children
Read label before use
Specific treatment (see on this label)
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Avoid release to the environment
Wash thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
If on skin wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present
and easy to do – continue rinsing
Take off contaminated clothing and wash before reuse
If skin irritation occurs get medical advice/attention.
If eye irritation persists get medical advice/attention
Collect spillage
Dispose of contents/container to a licensed waste disposal service.

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

Date of Preparation: 30 May 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
ATE: Acute Toxicity Estimates
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
STEL: Short Term Exposure Limit
CEIL: Ceiling
TSCA: Toxic Substances Control Act (USA)
DSL: Domestic Substances List (Canada)
PICCS: Philippine Inventory of Chemicals and Chemical Substances
ENCS: Existing and New Chemical Substances (Japan)
AICS: Australian Inventory of Chemical Substances
IECSC: Inventory of Existing Chemical Substances in China
KECL: Korea Existing Chemicals List

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 of fluids.

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