

# SPI Supplies Division

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Manufacturer's CAGE: 1P573

# Safety Data Sheet

Date Effective: November 18, 2015

SPI Catalog# 01300-XX

SPI Cold Mount Epoxy Kit - Hardener

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## Section 1: Identification

Chemical Name/Synonyms..... Cold Mount Epoxy Hardener

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

Product or Trade Name..... SPI Cold Mount Epoxy Kit Hardener

CAS #'s..... Hazardous component: 112-24-3

Chemical Formula..... Mixture

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## Section 2: Hazard Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Eye Damage (Category 1)

Skin Corrosion (Category 1B)

Skin Sensitization (Category 1)

Aquatic, Chronic (Category 3)

Acute Toxicity (Category 4)

**GHS Label Elements, including precautionary statements:**



**Signal word:** Danger

**Hazard-determining component of labeling:**

3,6-diazaoctanethylenediamin

**Hazard Statements:**

- H302 Harmful if swallowed
- H312 Harmful in contact with skin
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H412 Harmful 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.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environmental.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P321 Specific treatment (read this label).
- P362 Take off contaminated clothing and wash before reuse.
- P301 + 312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P301 + P330 + P 331: IF SWALLOWED: Rinse mouth. So NOT induce vomiting.
- P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water / shower.
- P340 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- P333 + P313 If skin irritation or a rash occurs: Get medical advice / attention.
- P405 Store locked up.
- P501 Dispose of contents/ container to a licensed waste disposal service.

**Hazardous Material Information System USA**

Health..... 4  
Fire Hazard..... 1  
Reactivity..... 0  
Personal Protection.....

**NFPA Rating (estimated)**

Health..... 3

Flammability..... 1

Reactivity..... 0

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## Section 3: Composition

**Chemical characterization:** Mixtures

**Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

CAS# 112-24-3 3,6-diazaoctanethylenediamin ENICS: 203-950-6 25-50%

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## Section 4: First Aid Measures

**Description of first aid measures**

**General information:**

Immediately remove any clothing soiled by the product.

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

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

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. Then consult a doctor.

**After swallowing:**

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

**Information for doctor:**

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

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

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## Section 5: Fire Fighting Measures

**Extinguishing media**

**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Special hazards arising from the substance or mixture:** No further relevant information available.

**Advice for fire fighters**

**Protective equipment:** No special measures required.

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## Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**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.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralizing agent.  
Dispose contaminated material as waste according to Section 13.  
Ensure adequate ventilation.

**Refer to Section 7 for information on safe handling.**

**Refer to Section 8 for information on personal protection equipment.**

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## Section 7: Handling and Storage

**Handling:****Precautions for safe handling**

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

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities****Storage:**

**Requirements to be met by storerooms and receptacles:** No special requirements.

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

**Further information about storage conditions:** Keep receptacle tightly sealed.

**Specific end use(s):** No further relevant information available.

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## Section 8: Exposure Controls and Personal Protection

**Additional information about design of technical systems:** No further data.

**Control parameters:**

Components with limit values that require monitoring at the workplace:

CAS# 112-24-3                    3,6-diazaoctanethylenediamin    WEEL: Long-term value: 6 mg/m<sup>3</sup>, 1 ppm (skin)

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

**Exposure controls****Personal protective equipment:****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.
- Avoid contact with the skin.

**Breathing equipment:**

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

**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 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 has to be observed.

**Eye protection:**

Tightly sealed goggles.

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## Section 9: Physical and Chemical Properties

**Information on basic physical and chemical properties****General Information:**

Appearance:

Form: Liquid

Color: Clear

Odor: Characteristic

Odor threshold: Not determined

pH-value: Not determined

Change in conditions

Melting point/ Melting range: Undetermined

Boiling point/ Boiling range: 278°C (532°F)

Flash point: 135°C (275°F)

Flammability (solid,gaseous): Not applicable

Ignition temperature: 335°C (635°F)

Decomposition temperature: Not determined

Auto igniting: Product is not self-igniting

Danger of explosion: Product does not present an explosion hazard

Explosion limits:

Lower: Not determined

Upper: Not determined

Vapor pressure: Not determined

Density at 20°C (68°F): 0.9 g/cm<sup>3</sup> (7.511 lbs/gal)

Relative density: Not determined

Vapor density: Not determined

Evaporation rate: Not determined

Solubility in / Miscibility with Water: Not miscible or difficult to mix

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

Viscosity:

Dynamic: Not determined

Kinematic: Not determined

Solvent content:

Organic solvents: 0.0%

Other information: No further relevant information available

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## Section 10: Stability and Reactivity

**Reactivity****Chemical stability**

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**Possibility of hazardous reactions:**

No dangerous reactions known.

**Conditions to avoid:**

No further relevant information available.

**Incompatible materials:**

No further relevant information available.

**Hazardous decomposition products:**

No dangerous decomposition products known.

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## Section 11: Toxicological Information

### Information on toxicological effects

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

112-24-3			3,6-diazaoctanethylenediamin
	Oral	LD50	2500 mg/kg (rat)
	Dermal	LD50	805 mg/kg (rabbit)

**Primary irritant effect:**

On the skin: Strong caustic effect on skin and mucous membranes.

On the eye: Strong caustic effect. Strong irritant with the danger of severe eye injury.

**Sensitization:** Sensitization possible through skin contact.

**Additional toxicological information:**

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

Harmful  
Corrosive  
Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**Carcinogenic Categories:**

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.

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## Section 12: Ecological Information

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Behavior in environmental systems:**

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Ecotoxicological effects:**

**Remark:** Harmful to fish

**Additional ecological information:**

**General notes:**

**Water hazard class 2 (self-assessment):** Hazardous for water

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

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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

Harmful to aquatic organisms

**Results of PBT and vPvB assessment:**

**PBT:** Not applicable  
**vPvB:** Not applicable  
**Other adverse effects:** No further relevant information available.

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## Section 13: Disposal Considerations

### Waste treatment methods

#### Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

#### Uncleaned pagagings:

Recommendation: Disposal must be made according to official regulations.

Dispose of contents/ container to a licensed waste disposal service.

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## Section 14: Transport Information

### DOT:

UN Number: NA2735  
Proper shipping name: Polyamines, liquid, corrosive, n.o.s. 9Triethylenetetramine)  
Class: 8 Corrosive substances  
Label: 8  
Packing Group: II

### IATA / IMDG

UN Number: UN2735  
Proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE)  
Class: 8 Corrosive substances  
Label: 8  
Packing Group: II

### Environmental hazards:

Marine pollutant: No

**Special precautions for user:** Warning: Corrosive substances  
EMS Number: F-A,S-B  
Segregation groups Alkalis

**UN "Model Regulation":** UN2735, Ployamines, liquid, corrosive, n.o.s. (Triethylenetetramine), 8, II

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## Section 15: Regulatory Information

### Safety, health and environmental regulation/ 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):** All ingredients are listed.

**Proposition 65: (chemicals known to cause cancer, reproductive toxicity for females, reproductive toxicity for males or to cause 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.

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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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