

Safety Data Sheet

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SPI Supplies Division

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Manufacturer's CAGE: 1P573

01300-RESN SPI Cold Mount Epoxy Kit Resin

Section 1: Identification

Chemical Name/Synonyms..... SPI Cold Mount Epoxy Kit Resin

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 Cold Mount Epoxy Kit Resin

CAS #'s..... 25085-99-8, 17557-23-2, 2530-83-8

Chemical Formula..... Not available.

GHS Classification

Skin sensitizer (1)

Skin Corrosion / Irritation (2)

Eye Damage / Irritation (2B)

GHS Label elements:



Signal word: Warning

Hazard statement(s)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statement(s)

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

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P281 Use personal protective equipment as required .

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.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Hazardous Material Information System USA

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

NFPA Rating (estimated)

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

Section 2: Composition

Chemical	CAS Number	Percentage	EC Number
Bisphenol A Based Epoxy Resin	25085-99-8	90 – 95 %	not available
Neopentylglycol Diglycidyl Ether	17557-23-2	5 – 10 %	241-536-7
Glycidoxypropyltrimethyl Siloxane	2530-83-8	1 %	219-784-2

Section 3: Hazard Identification

Emergency Overview:

Warning! Causes skin and eye irritation.
May cause allergic skin reaction.

Primary routes of entry:

Dermal

Note: heating product may produce inhalable vapors.

Eyes: Contact with eyes may cause mild irritation and discomfort.

Skin: Contact with skin causes irritation, redness and discomfort which is transient.

Inhalation: Inhalation of mists may cause irritation in the respiratory tract. Inhalation of vapors from heated material may cause irritation in the respiratory tract. Coughing and chest pain may result.

Possible longer term effects: Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or prolonged exposures may result in adverse skin effects, such as rash, irritation, or corrosion.

Medical Conditions Generally Aggravated by Exposure: Skin disorders and allergies.

Carcinogens under OSHA, ACGIH, NTP, IARC, Other: This product contains no carcinogens in concentrations of 0.1 per cent or greater.

Indication of immediate medical attention and special treatment needed, if necessary: N/A

Section 4: First Aid Measures

Inhalation: Move effected persons to fresh air; if effects occur, consult a physician.

Skin Contact: Continued and thorough washing in flowing water for at least 15 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Destroy contaminated leather items.

Eye Contact: Remove contact lenses after the first 5 minuets and continue washing. Obtain prompt medical consultation , preferably from an ophthalmologist.

Ingestion: If swallowed, seek immediate medical attention. Remove stomach contents by gastric suction or induce vomiting only as directed by a physician or medical personnel. Do not give anything by mouth to an unconscious person.

Note to Physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5: Fire Fighting Measures

Suitable extinguishing media:

Water fog or fine spray, carbon dioxide, alcohol resistant foam, dry chemical fire extinguishers.

Specific hazards arising from the chemical:

Flash point is Not Determined. May generate toxic or irritating combustion products. Sudden reaction and fire may occur if product is mixed with an oxidizing agent.

Special protective actions for fire-fighters:

Wear positive-protection self-contained breathing apparatus and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves.)

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Wear adequate personal protective equipment; see Section 8, EXPOSURE CONTROLS/PERSONAL PROTECTION.

Methods and materials for containment and clean up:

Large spills: Contain with dike. Pump into suitable and properly labeled containers.

Small spills: Dilute with water and recover or use non-combustible absorbent material/sand and shovel into appropriate containers.

Section 7: Handling and Storage

Precautions for safe handling:

Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well-ventilated workspace. When handling, do not eat, drink, or smoke.

Other Precautions: Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rule established by government regulations (e.g. OSHA).

Conditions for safe storage, including any incompatibilities:

Keep away from: oxidizers. Keep in cool, dry, ventilated storage areas and in closed containers.

Section 8: Exposure Controls and Personal Protection

Control parameters:

Component	CAS No.	Percent	Exposure Limits
Glycidoxypropyltrimethyl-Siloxane	2530-83-8	1%	10 ppm STEL 5 ppm TWA

Appropriate engineering controls:

Emergency shower and eye wash station available. Heated material.

Individual protection measures, such as personal protective equipment:

Eye Protection: Chemical safety glasses. A full-face shield and vapor respirator is recommended for operations involving spraying or other operations placing this material under pressurized conditions.

Hand Protection: Neoprene rubber gloves. Impermeable gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.

Respiratory Protection: Not required under normal conditions and in a well-ventilated workplace. At elevated temperatures, a cartridge mask National Institute for Occupational Safety and Health (NIOSH) approved for organic vapors may be appropriate.

Protective Clothing: Long sleeved clothing.

Work and Hygienic Practices: Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking, or using the toilet.

Notice: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instructions / specifications provided by the glove supplier.

Section 9: Physical and Chemical Properties

Appearance (physical state, color, etc.): Viscous Liquid, Yellow

Odor: Epoxy Odor

Odor threshold: N/A

pH: Not determined

Melting point/Freezing point: Not determined

Initial boiling point/boiling range: Not determined

Flash Point: Not determined

Evaporation rate: N/A

Flammability (solid,gas): N/A

Upper/lower flammability or explosive limits:

LFL: Not determined

UFL: Not determined

Vapor pressure: Not determined

Relative density (Specific Gravity): 1.11 – 1.14

Solubility: Liquid components are not readily soluble in water

Partition coefficient; n-octanol/water: N/A

Auto-ignition temperature: >300°C

Decomposition temperature: N/A

Viscosity: N/A

Section 10: Stability and Reactivity

Reactivity: N/A

Chemical Stability: Stable

Possibility of hazardous reactions: Will not occur

Conditions to avoid: N/A

Incompatible materials: Oxidizing Agents (i.e. perchlorates, nitrates, etc.), Sodium or Calcium Hypochloride.

Reactions with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Hazardous decomposition products: Under fire conditions – carbon monoxide, carbon dioxide. Irritating and toxic fumes at elevated temperatures.

Hazardous decomposition products: Carbon Monoxide in a fire. Carbon Dioxide in a fire. Irritating and toxic fumes at elevated temperatures.

Section 11: Toxicological Information

Likely routes of exposure: Eye Contact, Skin Contact, Ingestion.

Symptoms related to the physical, chemical and toxicological characteristics:

Ingestion: This material has a low potential for toxic effects due to ingestion.

Skin Contact: Prolonged or widespread skin contact is not likely to cause toxic effects.

Irritation: No information available.

Skin: Skin contact has caused allergic skin reactions in certain sensitized individuals.

Eyes: May cause slight temporary eye irritation with local redness. Mechanical irritation possible due to solid filler materials.

Inhalation: May cause allergic respiratory response upon exposure to heated vapors.

Delayed and immediate effects and also Chronic effects from short and long term exposure:

Carcinogen: This material contains no known or suspected carcinogens in levels above 0.1%.

Mutagen: This material contains no known or suspected mutagens in levels above 0.1T.

Numerical measures of toxicity: Not available.

Section 12: Ecological Information

Ecotoxicity:

Chemical Name	CAS No.	%
Bisphenol A Based Epoxy Resin	25085-99-8	90%-95%
LC50 3.1 mg/L*	Fathead Minnow	

*Toxicity effects are noted at concentrations above the level of water solubility.

Individual components of this mixture have been independently tested by the raw material suppliers and any known results have been presented above. The results for the individual components may not be representative of the ecological toxicity of this finished product. This finished product has not been tested to determine individual toxicological/ecological limits. Caution should be taken to prevent release to the environment. See Section 13 for further information.

Persistence and degradability: This material contains components that show little or no evidence of biodegradability. Caution should be taken to prevent release to the environment. See Section 13 for disposal information.

Bio-accumulative potential: Not available.

Mobility in soil: Not available.

Other adverse effects: Not available.

Section 13: Disposal Considerations

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Preferred method of disposal includes incineration under controlled conditions in accordance with all local and national laws and regulations. Untreated material is not suitable for disposal. Waste, even small quantities, should never be poured down drains, sewers, or watercourses. Waste must be disposed of in accordance with federal, state and local environmental control regulations. This material, when properly mixed and cured with its hardener component at the proper mix ration, may be land filled.

Contaminated packaging: Empty containers can only be disposed of when the remaining product adhering to the container walls has been removed. Hazard warning labels should be removed from the container only after it has been properly emptied.

Section 14: Transport Information

UN number: Not regulated.

UN proper shipping name: Liquid Plastic, NOI.

Transport hazard class(es): Not regulated.

Packing group, if applicable: Not regulated.

Environmental Hazards: Not applicable.

Transport in bulk: Not applicable.

Special precautions for user: Not applicable.

Section 15: Regulatory Information

Safety, health and environmental regulations:

Toxic Substances Control Act (TSCA): All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Toxic Substance Control Act (TSCA) 12(b) Component(s): none

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es): Irritant. Sensitizer.

EPA SARA Title III Section 312 (40CFR370) hazard class: Immediate Health Hazard. Delayed Health Hazard.

EPA SARA Title III Section 313 (*40CFR372) toxic chemicals above the “de minimis” level are: none.

CALIFORNIA PROPOSITION 65: Substance (components) known to the State of California to cause cancer and/or reproductive and subject to warning and discharge requirements under the “Safe Drinking Water and Toxic Enforcement Act of 1986’): None.

New Jersey Trade Secret Registry Number(s): None.

DSL: Components of this product have been reported to Environment Canada in accordance with subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substances List.

WHMIS Hazard Classification: Class D Division 2B – Skin Sensitizer.

WHMIS Ingredient Disclosure List: None.

WHMIS Trade Secret Registry Number(s): This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR: None.

WHMIS SYMBOL(S):



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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