

**1. Product and Company Identification**

**Product Names:** LD7200P – Crack Patch Paste - Resin

**Product Class:** Epoxy Resin

**Manufacturer:** Life Paint Company  
12927 Sunshine Avenue  
Santa Fe Springs, CA 90670

**Telephone:** 562-944-6391  
**Emergency:** 800-424-9300 (ChemTrec)

**2. Hazard Identification**

**Form:** Thixotropic Gel/Paste.  
**OSHA/HCS status:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
Skin irritation – Category 2  
Eye irritation – Category 2A  
Skin sensitization – Category 1  
Acute aquatic toxicity – Category 2  
Chronic aquatic toxicity – Category 2

**Label Elements**

**Hazard pictograms:**

**Emergency Overview:** **WARNING!**  
Hazards  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention:**  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash skin thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear eye protection/face protection.

**Response:**  
**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.  
**If skin irritation or rash occurs:** Get medical advice/attention.  
**If eye irritation persists:** Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.

Collect spillage.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Other hazards:**

No data available

See Section 11 for more detailed information on health effects and symptoms.

### 3. Composition/Information on Ingredients

**Synonyms:** Liquid Epoxy Resin

This product is a substance.

Ingredient Name	CAS Number	%
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	60-85%
Alkyl(C12-14) glycidyl ether	68609-97-2	<15%
Synthetic Amorphous, Pyrogenic Silica	112945-52-5	<15%
Proprietary		< 10%

### 4. First Aid Measures

<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
<b>Skin Contact:</b>	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. For contact with hot product, flush contaminated skin with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze. Get medical attention immediately.
<b>Inhalation:</b>	Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing air to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Ingestion:</b>	Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Protection of First Aid Personnel:</b>	In the event of body contact with molten material, immediately cool with running water; do not attempt to remove material from skin. It may be dangerous to the person providing aid to give mouth-to-mouth

Notes to Physician: resuscitation.  
No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-Fighting Measures

<b>Flammability of Product:</b>	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Extinguishing Media:</b>	
<b>Suitable</b>	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Water fog, applied gently may be used as a blanket for fire extinguishment.
<b>Not Suitable</b>	Do not use direct water stream. May spread fire.
<b>Special Exposure Hazards:</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Smoke may contain the original material in addition to combustion products of varying compositions which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolics, Carbon monoxide, Carbon dioxide. No action shall be taken involving any personal risk or without suitable training.
<b>Hazardous Combustion Products</b>	Decomposition products may include the following materials: carbon oxides. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen.
<b>Special Protective Equipment for Fire Fighters:</b>	Fire-Fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental Release Measures

<b>Personal Precautions:</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
<b>Environmental Precautions:</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b>Large Spill:</b>	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. For molten material, allow the product to cool and solidify. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
<b>Small Spill:</b>	Stop leak if without risk. Move containers from spill area. For molten material, allow the product to cool and solidify. Vacuum or sweep up

material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## 7. Handling and Storage

<b>Handling:</b>	Avoid prolonged or repeated contact with skin. Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid use of electric band heaters. Failures of electric band heaters have been reported to cause drums of liquid epoxy resin to explode and catch fire. Application of a direct flame to a container of liquid epoxy resin can also cause explosion and/or fire. See Section 8, Exposure Controls and Personal Protection
<b>Storage:</b>	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Note: This resin may be handled, shipped and stored at elevated temperature in bulk. Recommended pumping and storage temperature for bulk shipments is 60 degrees C (140 degrees F). Storage temperature: 2 – 43 degrees C (36 – 109 degrees F) Shelf Life – Use within 24 months

## 8. Exposure Controls/Personal Protection

<b>Control Parameters:</b>	None established
<b>Recommended Monitoring Procedures:</b>	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
<b>Engineering Measures:</b>	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
<b>Hygiene Measures:</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Respiratory:</b>	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure

levels, the hazards of the product and the safe working limits of the selected respirator. In most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vap or cartridge with a particulate pre-filter.

**Eyes:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

**Skin:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental Exposure Controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**9. Physical and Chemical Properties**

<b>Appearance</b>	<b>Blackish Brown - Thixotropic Gel/Paste</b>
<b>Flash Point</b>	<b>Closed cup &gt; 177C (&gt; 350F) at Pensky-Martens Closed Cup ASTM D93</b>
<b>Auto-Ignition</b>	<b>Not Available</b>
<b>Temperature Flammable limits</b>	
<b>Lower:</b>	<b>Not applicable</b>
<b>Upper:</b>	<b>Not applicable</b>
<b>Color</b>	<b>Colorless to yellow</b>
<b>pH</b>	<b>Not available</b>
<b>Boiling Point</b>	<b>&gt; 148 C (&gt;300 F) Estimated</b>
<b>Relative Density</b>	<b>1.4 <i>Estimated</i></b>
<b>Vapor Pressure</b>	<b>&lt;0.06 mmHg @ 21 C Literature</b>
<b>Odor Threshold</b>	<b>Not available</b>
<b>Viscosity</b>	<b>N/A - Paste Like</b>
<b>Water Solubility</b>	<b>Insoluble</b>
<b>Partition coefficient: n-Octanol/water</b>	<b>No Data Available</b>
<b>Evaporation rate</b>	<b>Not available</b>
<b>Vapor Density</b>	<b>Not available</b>

**10. Stability and Reactivity**

**Chemical Stability** The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to Avoid** Avoid short term exposures to temperatures above 300 degrees C. Potentially violent decomposition can occur above 350 degrees C. Avoid prolonged exposure to temperatures above 250 degrees C. Generation of gas during decomposition can cause pressure in closed systems. Pressure build up can be rapid. Avoid contact with oxidizing materials. Avoid contact with: Acids, Bases. Avoid unintended contact with amines.

**Materials to Avoid** Reactive or incompatible with the following materials: oxidizing materials, strong acids, strong alkalis. Avoid unintentional contact with amines.

**Other Hazards** Reacts with considerable heat release with some curing agents

**Hazardous Decomposition** Decomposition products depend upon temperature, air supply and the presence of other materials. Gases are released during decomposition.

**Products** Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide, and water.  
**Reactivity** No data available

## 11. Toxicological Information

**Acute oral toxicity** Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.  
Based on information for component(s)  
LD50 Oral Rat > 5,000 mg/kg

**Acute dermal toxicity** Prolonged skin contact is unlikely to result in absorption of harmful amounts.  
LD50 Dermal Rabbit > 20,000 mg/kg

**Acute inhalation toxicity** At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material, mist or aerosols may cause respiratory irritation. The LC50 has not been determined.

**Skin Corrosion/irritation** Prolonged contact may cause skin irritation with local redness. Repeated contact may cause skin irritation with local redness

**Serious eye damage/eye irritation** May cause eye irritation. Corneal injury is unlikely.

**Sensitization** For similar material(s): Has caused allergic skin reactions in humans. For respiratory sensitization: No relevant data found.

**Specific Target Organ Systemic Toxicity (single Exposure)** Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)** Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.

**Carcinogenicity** Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBA). Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBA is not classified as a carcinogen.

**Teratogenicity** Resins based on the diglycidyl ether of bisphenol A (DGEBA) did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

**Reproductive toxicity** In animal studies, did not interfere with reproduction.

**Mutagenicity** In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

**Aspiration Hazard** Based on physical properties, not likely to be an aspiration hazard.

**Components Influencing Toxicity**

**Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers**  
Acute inhalation toxicity – The LC50 has not been determined

**Alkyl(C12-14) glycidyl ether**  
Acute inhalation toxicity – Excessive exposure may cause irritation to upper respiratory tract (nose and throat) – LC50, Rat, 4 hour, vapour, 0.206 mg/l No deaths occurred following exposure to a saturated atmosphere.

<b>12. Ecological Information</b>
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**Toxicity**

**Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers**  
Acute toxicity to fish. Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50) between 1 and 10 mg/L in the most sensitive species tested)

LC50, *Oncorhynchus mykiss* (rainbow trout), semi-static test, 96 Hour, 2 mg/l.

Acute toxicity to aquatic invertebrates.

EC50, *Daphnia magna* (Water flea), static test, 48 hour, 1.8 mg/l

Acute toxicity to algae/aquatic plants

ErC50, *Scenedesmus capricornutum* (fresh water algae, static test, 72 Hour, Growth rate inhibition, 11 mg/l

Toxicity to bacteria

IC50, Bacteria, 18 Hour, Respiration rates, > 42.6 mg/l

Chronic aquatic toxicity

Chronic toxicity to aquatic invertebrates

MATC (Maximum Acceptable Toxicant Level), *Daphnia magna* (Water flea), semi-static test, 21 d, number of offspring, 0.55 mg/l

**Alkyl(C12-14) glycidyl ether**

Acute toxicity to fish. Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

LC50, *Oncorhynchus mykiss* (rainbow trout), semi-static test, 96 Hour, >5,000 mg/l.

LC50, *Lepomis macrochirus* (Bluegil sunfish), static test, 96 Hour, 1,800 mg/l, Other guidelines

Acute toxicity to algae/aquatic plants

ErC50, *Pseudokirchneriella subcapitata* (green algae), 72 Hour, Growth inhibition (cell density reduction), 843 mg/l

NOEC, *Pseudokirchneriella subcapitata* (green algae), 72 Hour, Growth inhibition (cell density reduction), 500 mg/l

*Scenedesmus capricornutum* (fresh water algae, static test, 72 Hour, Growth rate inhibition, 11 mg/l

Toxicity to bacteria

	<p>EC50, activated sludge, static test, 3 Hour, Respiration rates &gt; 100 mg/l</p>
Persistence and degradability	<p><u>Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers</u> Biodegradability: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. 10-day Window: Not applicable Biodegradation: 12% Exposure time: 28d Method: OECD Test Guideline 302B or Equivalent.</p> <p>Theoretical Oxygen Demand: 2.35 mg/mg Estimated.</p> <p><b>Photodegradation</b> Test Type: Half-life (indirect photolysis) Sensitizer: OH radicals Atmospheric half-life: 1.92 hour Method: Estimated.</p> <p><u>Alkyl(C12-14) glycidyl ether</u> Biodegradability: Biodegradation under aerobic static laboratory conditions is moderate (BOD20 or BOD28/ThOD between 10 and 40%) 10-day Window: Pass Biodegradation: 87% Exposure time: 28d Method: OECD Test Guideline 301F or Equivalent.</p>
Bioaccumulative potential	<p><u>Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers</u> Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Lo Pow between 3 and 5 Partition coefficient: n-octanol/water(log Pow): 3.242 at 25 degrees C Estimated.</p> <p><u>Alkyl(C12-14) glycidyl ether</u> Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Lo Pow between 3 and 5 Partition coefficient: n-octanol/water(log Pow): 3.77 at 20 degrees C Estimated.</p>
Mobility in soil	<p><u>Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers</u> Potential for mobility in soil is low (Koc between 500 and 2000) Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process. Partition coefficient (Koc): 1800-4400 Estimated.</p> <p><u>Alkyl(C12-14) glycidyl ether</u> Expected to be relatively immobile in soil (Koc &gt; 5000). Partition coefficient (Koc): &gt; 5000 OECD 121 : HPLC Method.</p>

<b>13. Disposal Considerations</b>
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**Waste Disposal**

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

As your supplier, we have no control over the management practices or manufacturing processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in the SDS Section: Composition Information. For unused and uncontaminated product, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

**14: Transport Information**

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

DOT

Not regulated for transport

**Classification for SEA transport (IMO-IMDG):**

Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUB-STANCE, LIQUID, N.O.S. (EPOXY RESIN)
UN Number	UN 3082
Class	9
Packing group	III
Marine pollutant	Epoxy Resin
Transport in bulk	Consult IMO regulations before transporting
According to Annex I or II of MARPOL 73/78 and the IBC or IGC Code	ocean bulk

**Classification for AIR transport (IATA/ICAO):**

Proper Shipping name:	ENVIRONMENTALLY HAZARDOUS SUB-STANCE, LIQUID, N.O.S. (EPOXY RESIN)
UN Number	UN 3082
Class	9
Packing Group	III

**15. Regulatory Information**

US Regulations

OSHA Hazard Communication Standard

This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Federal Regulations

SARA Section 313  
This material does not contain any chemical components with known CAS

numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA Sections 311 and 312  
Acute Health Hazard

United States TSCA Inventory (TSCA) All components of this product are in compliance with the inventory listing requirements of the U.S Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

State Regulations SARA 301 Extremely Hazardous Substances – None required  
Massachusetts RTK Substances – None required  
New jersey & Pennsylvania RTK Hazardous Substance  
Pyrogenic colloidal silica CAS 112945-52-5

California Prop. 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm.

International Regulations

Chemical Inventories Europe inventory – All components are listed or exempted  
Australia inventory (AICS) – All components are listed or exempted  
China inventory ( IECSC) – All components are listed or exempted  
Korea inventory (KECI) – All components are listed or exempted  
Philippines inventory (PICCS) – All components are listed or exempted  
Japan inventory ( ENCS) – All components are listed or exempted  
Canada inventory – All components are listed or exempted  
United States inventory (TSCA 8b)– All components are listed or exempted

**16. Other Information**

Hazardous Material Health: 1  
Information System III Flammability: 1  
(U.S.A.) Reactivity: 0  
Chronic:

Caution: HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

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