

# Safety Data Sheet

## LD3770 CLEAR - HARDENER

Revision date: 2015/08/10

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### 1. Identification

**Product identifier used on the label**

**LD3770 HARDENER**

**Recommended use of the chemical and restriction on use**

**Floor Coating. Industrial Maintenance Coating.**

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

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

562-944-6391

**Emergency telephone number**

CHEMTREC: 1-800-424-9300

**Other means of identification**

Chemical family: mixed amine  
Synonyms: mixed amine

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200**

**Classification of the product**

Acute Toxicity - Oral	Category 4
Skin Corrosion	Category 1B
Serious Eye Damage	Category 1
Skin Sensitization -	Category 1

Label Elements

Pictogram:



Signal Word: Danger

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### Hazard Statement:

Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.

### Precautionary Statements (Prevention):

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash hands thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary Statements (Response):

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
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.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.

### Precautionary Statements (Disposal):

Disposal of contents/container to be specified in accordance with regulations.

### Hazards not otherwise classified

Harmful if swallowed.  
Components of the product may affect the nervous system.  
Severe respiratory irritant.  
Severe skin irritant.  
Severe eye irritant.  
May cause sensitization by skin contact.

## 3. Composition / Information on Ingredients

Components	CAS Number	Concentration (Weight)
Benzyl alcohol	100-51-6	< 40 %
Isophoronediamine (IPD)	2855-13-2	< 35 %
Trimethylhexamethylenediamine (TMD)	25620-58-0	< 10 %
Cycloaliphatic amine	Not Available	> 15%
Proprietary Ingredients	Proprietary	< 15 %

CHEMICAL FAMILY: Cycloaliphatic Amine

## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

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### **If inhaled:**

If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

### **If on skin:**

Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Take off contaminated clothing and shoes immediately.

### **If in eyes:**

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eyespecialist.

### **If swallowed:**

Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.

### **Most important symptoms and effects, both acute and delayed:**

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Neurological disorders. Asthma. Skin disorders and Allergies. Eye disease.

### Note to physician

Treatment: Application of corticosteroid cream has been effective in treating skin irritation.

## **5. Fire-Fighting Measures**

### **Extinguishing media**

Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Dry sand. Limestone powder.

### **Special hazards arising from the substance or mixture**

May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire-fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces noxious and toxic fumes.

### **Advice for fire-fighters**

Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

### **Further information:**

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### **Impact Sensitivity:**

Remarks: No data available.

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## **6. Accidental release measures**

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

Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.

### **Environmental precautions**

Construct a dike to prevent spreading

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

Spills should be contained, solidified, and placed in suitable containers for disposal.

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## **7. Handling and Storage**

### **Handling**

Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Use personal protective equipment. When using, do not eat, drink or smoke.

Protection against fire and explosion:

Take precautionary measures against static discharges.

### **Conditions for safe storage, including any incompatibilities**

Segregate from acids and acid forming substances.

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition - No smoking. Keep container tightly closed.

Storage stability: Do not store in reactive metal containers. Keep container dry because product takes up the humidity of air.

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## **8. Exposure Controls/Personal Protection**

### **Engineering Measures**

Provide readily accessible eye wash stations and safety showers.

Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits

### **Personal protective equipment**

#### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator when ventilation is inadequate. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

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### Hand protection:

Butyl-rubber, nitrile rubber, neoprene, PVC disposable, or otherwise impervious gloves should be worn.

Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

### Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles).

### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit, long-sleeve shirts, trousers without cuffs.

### General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Hands and/or face should be washed before breaks and at the end of the shift. When using, do not eat, drink or smoke. Remove contaminated clothing. Discard contaminated leather articles.

### Exposure limit(s)

Benzyl alcohol	Time Weighted Average (TWA): WEEL	10 ppm	44.20 mg/m <sup>3</sup>
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## 9. Physical and Chemical Properties

Form:	liquid
Odor:	Ammoniacal
Color:	Clear, Colorless
pH value:	Alkaline, 11-12
Melting point:	No data available
Boiling point:	> 200 °C
Flash point:	> 90 °C (ASTM D93)
Flammability:	Not flammable
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Autoignition:	No data available
Vapor pressure:	< 1.00 mmHg at 70 °F (21 °C)
Density:	61.804 lb/ft <sup>3</sup> (0.99 g/cm <sup>3</sup> ) at 70 °F (21 °C)
Viscosity, Dynamic	1500-2000 CPS
Solubility in Water	Not very soluble < 1%
Evaporation rate:	< Ether

## 10. Stability and Reactivity

### Chemical Stability:

Stable under normal conditions.

Conditions to avoid:

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No data available.

### Materials to avoid:

Sodium hypochlorite. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents. Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.

### Hazardous decomposition products:

Aldehydes. Flammable hydrocarbon fragments. Nitrosamine. Nitrogen oxides (NO<sub>x</sub>). Nitrogen oxide can react with water vapors to form corrosive nitric acid. Ammonia. Nitric acid. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>)

### Possibility of hazardous Reactions/Reactivity:

No data available.

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## 11. Toxicological information

### Information on toxicological effects

#### Likely routes of exposure

##### Effects on Eye:

Severe eye irritation.

##### Effects on Skin:

If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.

##### Inhalation Effects:

May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure. May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

##### Ingestion Effects:

Harmful if swallowed. May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure.

##### Symptoms:

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause Sore throat. Neurological disorders, Asthma, Skin disorders and Allergies, Eye disease.

#### Acute toxicity

Acute Oral Toxicity: LD50 : 1,000 mg/kg Species : Rat.

#### Inhalation:

No data is available on the product itself. Inhalation - Components  
Benzyl alcohol: LC50 (4 h): > 4.178 mg/l OECD Test Guideline 403

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Species: Rat.

Acute Dermal Toxicity: LD50 : > 2,800 mg/kg Species : Rabbit.

Skin corrosion/irritation: Severe skin irritation. Corrosive to the skin of a rabbit.

Serious Eye Damage/Eye Irritation: Severe eye irritation

Sensitization: May cause sensitization by skin contact

### Chronic Toxicity or Effects from Long Term Exposures

Carcinogenicity: No data available

Reproductive Toxicity: No data is available on the product itself

Germ Cell Mutagenicity: No data is available on the product itself

Specific Target Organ Systemic Toxicity (single exposure): No data is available

Specific Target Organ Systemic Toxicity (repeated exposure): No data is available

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensitization, asthma and eczemas. Neurological disorders, Asthma, Skin disorders and Allergies, Eyedisease.

Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No Observed Adverse Effect Level (NOAEL) was 400 mg/kg.No evidence of carcinogenicity was seen in a two-year study with rats and mice.

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## 12. Ecological Information

### EcoToxicity Effects

Aquatic toxicity: No data available on the product itself

Toxicity to fish:

Benzyl alcohol LC50 (96 h) : 10 mg/l Species : Bluegill sunfish (*Lepomis macrochirus*).

Benzyl alcohol LC50 (96 h) : 460 mg/l Species : Fathead minnow (*Pimephales promelas*).

Toxicity to algae:

Benzyl alcohol IC50 (72 h) : 700 mg/l Species : Algae.

Toxicity to other organisms: No data available.

Persistence and degradability

Biodegradability: No data is available on the product itself.

Mobility: No data available.

Bioaccumulation: No data is available on the product itself.

Bioaccumulation:

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Benzyl alcohol: Low bioaccumulation potential.

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### 13. Disposal Considerations

Dispose of in a licensed facility. Do not discharge into waterways or sewer systems without proper authorization. Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

#### Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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### 14. Transport Information

#### Land transport

USDOT

Hazard class: 8  
Packing group: III  
ID number: UN 2735  
Hazard label: 8  
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S., (Trimethylhexane-1,6-diamine)  
Marine Pollutant: No

#### Sea transport

IMDG

Hazard class: 8  
Packing group: III  
ID number: UN 2735  
Hazard label: 8  
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S., (Trimethylhexane-1,6-diamine)  
Marine Pollutant: No

#### Air transport

IATA/ICAO

Hazard class: 8  
Packing group: III  
ID number: UN 2735  
Hazard label: 8  
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S., (Trimethylhexane-1,6-diamine)  
Marine Pollutant: No

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### 15. Regulatory Information

Toxic Substance Control Act (TSCA) 12(b)

Component(s): None.

COUNTRY	REGULATORY LIST	NOTIFICATION
USA	TSCA	Included on Inventory.



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EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification:  
Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level:  
None.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)  
This product does not contain any chemicals known to State of California to cause cancer, birth defects or any otherharm.

### 16. Other Information

#### HMIS Rating

Health : 3  
Flammability : 1  
Physical hazard : 0

**SDS Prepared by:**  
Life Paint Company

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The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of Life Paint Company. Product Safety Program. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information obtained herein. Data sheets are available for all Life Paint Company products. You are urged to obtain data sheets for all Life Paint Company products you buy, process, use or distribute and you are encouraged and requested to advise those who may come in contact with such products of the information contained therein.

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