



## Safety Data Sheet

According to OSHA Communication Standard, 29 CFR 1910.1200

### Rapid Set Liquid Low-P

#### SECTION 1: Identification

##### Product identifier

**Product name:** Liquid Low-P

**Product code:** 181140050

##### Recommended use of the product and restriction on use

**Relevant identified uses:** Corrosion inhibitor for concrete

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

##### Manufacturer or supplier details

##### Manufacturer:

United States

CTS Cement Manufacturing Corporation

12442 Knott St.

Garden Grove, CA 92841

800-929-3030

info@ctscement.com

##### Emergency telephone number:

United States

INFOTRAC 1-800-535-5053

International

INFOTRAC 1-352-323-3500

#### SECTION 2: Hazard(s) identification

##### GHS classification:

Skin irritation, category 2

Eye irritation, category 2A

**Signal word:** Danger

##### Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

##### Precautionary statements:

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

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.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

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**Rapid Set Liquid Low-P****Hazards not otherwise classified:**

None.

**SECTION 3: Composition/information on ingredients**

Identification	Name	Weight %
CAS number: 2943-75-1	Triethoxy(octyl)silane	< 20
CAS number: 69011-36-5	Isotridecoanol, ethoxylated	< 2
CAS number: 100-37-8	2-diethylaminoethanol	< 1

**Additional Information:**

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

**SECTION 4: First aid measures****Description of first aid measures****General notes:**

Remove contaminated or saturated clothing immediately and dispose of safely.

**After inhalation:**

If aerosol or mists are inhaled, take affected persons out into the fresh air. Possible discomforts include severe irritation of mucus lining (nose, throat, eyes), cough, sneezing and flow of tears. In case of persistent discomfort, obtain medical attention immediately.

**After skin contact:**

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.

**After eye contact:**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Do not allow contaminated water to contact the unaffected eye or face during irrigation of an affected eye. Consult an ophthalmologist.

**After swallowing:**

If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention. Never administer anything by mouth to an individual who rapidly losing consciousness, unconscious or convulsing.

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

After absorbing large amount of substance, apply therapy for irritative effects. If substance has been swallowed, early endoscopy is recommended in order to assess mucosa lesions in the esophagus and stomach which may appear. If necessary, suck away leftover substance. Allergic reactions cannot be excluded. Apply treatment of allergic reaction if necessary.

**Immediate medical attention and special treatment**



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#### Specific treatment:

If required, therapy of irritative effect. If substance has been swallowed: Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear. If necessary, aspirate leftover substance.

#### Notes for the doctor:

Not determined.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

Water spray, foam, dry powder and carbon dioxide.

##### Unsuitable extinguishing media:

High volume water jet.

##### Specific hazards during fire-fighting:

Standard procedure for chemical fires.

##### Special protective equipment for firefighters:

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

### SECTION 6: Accidental release measures

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

Use personal protective equipment.

#### Environmental precautions:

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Handle and open container with care.

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

##### Advice on protection against fire and explosion

Normal measures for preventive fire protection.

#### Storage

Keep containers tightly closed in a cool, well-ventilated place. Protect from frost. Always avoid temperatures of > 40°C. Do not store together with strong acids or bases.

#### Further information

Keep tightly sealed in original packing. Protect from freezing.

### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

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**Rapid Set Liquid Low-P****2-diethylaminoethanol (CAS: 100-37-8)**

Control parameters	2 ppm	Time Weighted Average (TWA):(ACGIH)
Control parameters	Can be absorbed through the skin	Skin designation: ACGIH
Control parameters	Can be absorbed through the skin	Skin designation: OSHA Z1
Control parameters	10 ppm; 50 mg/m <sup>3</sup>	Permissible exposure limit: OSHA Z1
Control parameters	Can be absorbed through the skin	Skin designation: US CA OEL
Control parameters	2 ppm; 9.6 mg/m <sup>3</sup>	Time Weighted Average (TWA) Permissible Exposure Limit (PEL)(US CA OEL)

**Other information**

Hazardous components without workplace control parameters.

**Biological limit values:**

No biological exposure limits noted for the ingredient(s).

**Information on monitoring procedures:**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

**Appropriate engineering controls:**

Provide adequate ventilation. Handle in accordance with good industrial hygiene and safety practices. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Do not breathe in vapors or aerosols. Avoid contact with the skin and the eyes.

**Personal protection equipment Eye and face protection:**

Safety goggles or glasses, or appropriate eye protection.

**Skin and body protection:**

A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

**Hand protection:**

Glove material butyl-rubber  
 Material thickness 0.5 mm  
 Break through time > 480 min  
 Glove material Fluorinated rubber (Viton)  
 Material thickness 0.4 mm  
 Break through time >= 480 min



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Selection of protective gloves to meet the requirements of specific workplaces.

Suitability for specific workplaces should be clarified with protective glove manufacturers.

The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials. Please observe that the daily duration of usage of a chemical protective glove is in practice far shorter due to the many influencing factors (e.g. temperature, mechanical strain on the glove material) than the permeation time determined acc. EN 374. The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use.

#### Respiratory protection:

In case of dusts/vapors/aerosols being formed or if the limit values like TLV are exceeded:

use respiratory equipment with suitable filter (filter type ABEK) or wear a self contained respiratory apparatus. Use only respiratory protection equipment with CE-symbol including four digit test number.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Note time limit for wearing respiratory protective equipment.

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use.

NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

#### General hygienic measures:

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. Remove contaminated or saturated clothing. Wash contaminated clothing before reuse.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Liquid; White color
Odor	Almost odorless, slightly alcoholic
Odor threshold	Not available
pH	9.5-11.4 [DIN 38404-C5]
Melting point/freezing point	Not available
Initial boiling point/range	Not applicable
Flash point (closed cup)	>95C
Evaporation rate	Not applicable
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	Not applicable
Vapor density	Not applicable
Density	0.997-1.006 g/cm <sup>3</sup>

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Relative density	Not available
Solubilities	Partially soluble
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not determined
Dynamic viscosity	20.4 mPa.s
Kinematic viscosity	Not applicable
Explosive properties	Not available
Oxidizing properties	Not available

**Other information**

VOC	172 g/L
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**SECTION 10: Stability and reactivity****Reactivity:**

Does not react under normal conditions of use and storage.

**Chemical stability:**

Stable under normal conditions of use and storage.

**Possibility of hazardous reactions:**

None under normal conditions of use and storage.

**Conditions to avoid:**

Temperatures: &lt; 0C

**Incompatible materials:**

Strong acids or bases.

**Hazardous decomposition products:**

Ethanol in case of hydrolysis, alcohol formed by hydrolysis lowers the flash point of the product.

**SECTION 11: Toxicological information****Information on toxicological effects:****Acute toxicity****Product data:****Acute inhalation toxicity estimate :** > 200 mg/l / 4 h / vapor**Method:** Calculation method**Acute dermal toxicity estimate :** > 5000 mg/kg**Method:** Calculation method**Skin corrosion/irritation****Assessment:** Causes skin irritation.**Product data:** No data is available.**Substance data:** No data is available.**Serious eye damage/irritation**



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**Assessment:** Causes eye irritation.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### International Agency for Research on Cancer (IARC):

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### National Toxicology Program (NTP):

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Information on likely routes of exposure:

No data is available.

#### Symptoms related to the physical, chemical and toxicological characteristics:

No data is available.

#### Other information:

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No data is available.

**SECTION 12: Ecological information****Acute (short-term) toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data available.**Substance data:** No data available.**Chronic (long-term) toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data available.**Substance data:** No data available.**Persistence and degradability****Product data:** No data available.**Substance data:** No data available.**Bioaccumulative potential****Product data:** No data available.**Substance data:** No data available.**Mobility in soil****Product data:** No data available.**Substance data:** No data available.**Other adverse effects:** No data available.**SECTION 13: Disposal considerations****Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. Dispose of contents/container in accordance with local/regional/national/international regulations. Since empty containers retain product residue, follow SDS and label warnings even after container is emptied. Incorrect disposal or reuse of this container is illegal and can be dangerous.

**SECTION 14: Transport information****United States Transportation of dangerous goods (49 CFR DOT)**

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

**International Maritime Dangerous Goods (IMDG)**

UN number	Not regulated
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UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

**International Air Transport Association Dangerous Goods Regulations (IATA-DGR)**

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

**SECTION 15: Regulatory information**

**United States regulations Inventory listing (TSCA):** All components are on the US EPA TSCA Inventory List.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 extremely hazardous substances:** None of the ingredients are listed.

**SARA Section 311/312 Hazard Categories:** The product meets the criteria only for the listed hazard classes: Acute Health Hazard.

**SARA Section 313 toxic chemicals:** None of the ingredients are listed.

**CERCLA:** None of the ingredients are listed.

**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

**Massachusetts Right to Know:** No ingredient regulated by MA Right-to-Know Law present.

**New Jersey Right to Know:** No ingredient regulated by NJ Right-to-Know Law present.

**New York Right to Know:** No ingredient regulated by NY Right-to-Know Law present.

**Pennsylvania Right to Know:** No ingredient regulated by PA Right-to-Know Law present.

**California Proposition 65:**

Not listed/Not Regulated

**SECTION 16: Other information****Abbreviations and Acronyms:**

**ACGIH:** American Conference of Governmental Industrial Hygienists

**ADR:** European Road Transport

**AU:** Australia



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**CA:** Canada  
**CAS:** Chemical Abstracts Service  
**CERCLA:** Comprehensive Environmental Response, Compensation, and Liability Act  
**CN:** China  
**CPR:** Controlled Products Regulations  
**DFG:** Deutsche Forschungsgemeinschaft  
**DOT:** Department of Transportation  
**DSL:** Domestic Substances List  
**EEC:** European Economic Community  
**ECHA:** European Chemicals Agency  
**EINECS:** European Inventory of Existing Commercial Chemical Substances  
**EPA:** Environmental Protection Agency  
**EU:** European Association  
**IARC:** International Agency for Research on Cancer  
**IMDG:** International maritime dangerous goods code  
**IATA:** International Air Transport Association  
**ICAO:** International Civil Aviation Organization  
**JP:** Japan  
**COD:** Chemical Oxygen Demand  
**BOD5:** 5-day biochemical oxygen demand  
**BCF:** Bioconcentration factor  
**LD50:** Lethal Dose 50  
**CL50:** Lethal Concentration 50  
**EC50:** Effective concentration 50  
**Log-POW:** Octanol-water partition coefficient  
**Koc:** Partition coefficient of organic carbon  
**Know:** Octanol/water partition coefficient  
**KR:** Korea  
**LEL:** Lower Explosive Limit  
**UEL:** Upper Explosive Limit  
**NIOSH:** National Institute for Occupational Safety and Health Administration  
**PH:** Philippines  
**RCRA:** Resource Conservation and Recovery Act  
**OSHA:** Occupational Safety and Health Administration  
**RID:** European Rail Transport  
**SARA:** Superfund Amendments and Reauthorization Act  
**STEL:** Short Term Exposure Limit  
**TDG:** Transportation of Dangerous Goods  
**TSCA:** Toxic Substances Control Act  
**TWA:** Time Weighted Average  
**US:** United States

#### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed



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only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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**End of Safety Data Sheet**