

## Safety Data Sheet

Material Name: LiquiSeal Concrete & Masonry Primer (B)

Product #: 330897 (.25G)  
330898 (1.1G)

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

LiquiSeal Concrete & Masonry Primer

**Synonyms**

Epoxy hardener

**Chemical Family**

Isocyanate

**Restrictions on Use**

For industrial use only.

**Manufacturer Information**

Carlisle SynTec  
1285 Ritner Highway  
Carlisle, PA 17013 USA  
Phone: +1-800-479-6832  
Emergency Phone #: +1-800-424-9300 (Chemtrec)

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### Section 2 - HAZARDS IDENTIFICATION

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**Classification of the substance or mixture**



GHS08 Health Hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.  
Skin Sens. 1 H317 May cause an allergic skin reaction.

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### Label Elements

#### GHS Label Elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### Signal Word

Danger.

#### Hazard-determining components of labeling

Benzyl alcohol

3-aminomethyl-3,5,5-trimethylcyclohexylamine

m-phenylenebis(methylamine)

2-piperazin-1-ylethylamine

#### Hazard Statement(s)

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

#### Precautionary Statements

Do not breathe dust/fume/gas/mist/vapours/spray.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

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

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.

Specific treatment (see on this label).

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Wash contaminated clothing before reuse.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER/doctor.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### WHMIS-symbols:

D1B - Toxic material causing immediate and serious toxic effects

D2B - Toxic material causing other toxic effects

E - Corrosive material



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**NFPA ratings (scale 0 - 4):**



Health = 3  
Fire = 1  
Reactivity = 0

### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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

Dangerous Components:		
100-51-6	Benzyl alcohol	30-60%
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	25-30%
14477-55-0	m-phenylenebis(methylamine)	≤10%
140-31-8	2-piperazin-1-ylethylamine	≤5%

**Additional Information:** Exact concentrations are being withheld as trade secrets.

### Section 4 - FIRST AID MEASURES

**General information:** Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours.

**After Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing, immediately call a poison center or doctor.

**After Skin Contact:** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center or doctor.

**After Eye Contact:** 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.

**After Swallowing:** Rinse mouth, do not induce vomiting. Immediately call a poison center / 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

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**Suitable Extinguishing Agents:**

Use fire fighting measures that suit the environment.

**Special Hazards Arising from the Substance or Mixture:**

No further relevant information available.

**Protective Equipment:**

Mouth respiratory protective device.

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### Section 6 - ACCIDENTAL RELEASE MEASURES

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**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.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**Methods and Materials 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 item 13.

Ensure adequate ventilation.

**Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

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### Section 7 - HANDLING AND STORAGE

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**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.

**Storage**

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

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

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**Further Information about Storage Conditions:** Keep receptacle tightly sealed.

**Special End Use(s):** No further relevant information available.

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### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Additional information about design of technical systems:** No further data; see item 7.

Component with limit values that require monitoring at the workplace:	
1477-55-0 m-phenylenebis(methylamine)	
EL	Ceiling limit value: 0.1 mg/m <sup>3</sup> Skin
EV	Ceiling limit value: 0.1 mg/m <sup>3</sup> Skin

**Additional Information:**

The lists that were valid during the creation were used as basis.

**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 and skin.

**Breathing Equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

**Protection of Hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of Gloves:**

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

**Eye Protection**



Tightly sealed goggles.

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### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid	<b>Color</b>	Light yellow
<b>Odor</b>	Amine-like	<b>Odour threshold</b>	Not determined
<b>pH-value at 20°C</b>	12	<b>Change in condition</b> <b>Melting point/Melting range:</b> <b>Boiling point/Boiling range:</b>	Undetermined. > 200°C
<b>Flash point</b>	101°C	<b>Flammability (solid, gaseous)</b>	Not applicable
<b>Ignition temperature</b>	315°C	<b>Decomposition temperature</b>	Not determined
<b>Auto igniting</b>	Product is not selfigniting	<b>Danger of explosion</b>	Product does not present an explosion hazard
<b>Explosion limits</b> <b>Lower</b> <b>Upper</b>	1.3 Vol % 13.0 Vol %	<b>Vapor pressure at 20°C</b>	0.1 hPa
<b>Density at 20°C</b> <b>Relative density</b> <b>Vapour density</b> <b>Evaporation rate</b>	1.04 g/cm <sup>3</sup> Not determined Not determined Not determined	<b>Solubility in / Miscibility with Water</b>	Fully miscible
<b>Partition coefficient (n-octanol/water)</b>	Not determined	<b>Viscosity</b> <b>Dynamic at 20°C</b> <b>Kinematic</b>	100 mPas Not determined
<b>Solvent content</b> <b>Organic solvents</b>	0.0%		
<b>Solids content</b> <b>Other information</b>	100.0% No further relevant information available		

### Section 10 - STABILITY AND REACTIVITY

**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.

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**Incompatible Materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

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### Section 11 - TOXICOLOGICAL INFORMATION

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#### Information on Toxicological Effects:

##### Acute Toxicity

LD/LC50 values that are relevant for classification:		
<b>100-51-6 Benzyl alcohol</b>		
Oral	LD50	1230 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>4178 mg/m <sup>3</sup> mg/l (rat)
<b>2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>		
Oral	LD50	1030 mg/kg (rat)
Inhalative	LC50/4 h	>5.01 mg/l (rat)
<b>1477-55-0 m-phenylenebis(methylamine)</b>		
Oral	LD50	1040 mg/kg (rat)
Inhalative	LC50/4 h	2.4 mg/l (rat)
<b>140-31-8 2-piperazin-1-ylethylamine</b>		
Oral	LD50	2140 mg/kg (rat)
Dermal	LD50	880 mg/kg (rabbit)

#### Specific Symptoms in Biological Assay:

No further relevant information available.

#### Primary Irritant Effect:

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

**On the eye:** Strong caustic effect.

**Sensitization:** Sensitization possible though skin contact.

#### Additional Toxicological Information:

The product shows the following dangers according to 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.

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### Carcinogenic Categories

<b>IARC (International Agency for Research on Cancer)</b>
None of the ingredients is listed.
<b>NTP (National Toxicology Program)</b>
None of the ingredients is listed.
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>
None of the ingredients is listed.

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### Section 12 - ECOLOGICAL INFORMATION

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

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

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

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

**Ecotoxical effects:**

**Remark:** Harmful to fish

#### Additional Ecological Information

**General Notes:**

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

Harmful to aquatic organisms.

Water hazard class 2 (Self-assessment): hazardous for water.

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

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

**Other Adverse Effects:** No further relevant information available.

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### Section 13 - DISPOSAL CONSIDERATIONS

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#### Waste Treatment Methods

**Recommendation:**

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

**Uncleaned Packagings:**

**Recommendations:**

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

**Recommended cleansing agent:**

Water, if necessary with cleansing agents.





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### Section 14 - TRANSPORT INFORMATION

<b>UN-Number</b>	UN2735
<b>DOT, TDG, IMDG, IATA</b>	
<b>UN proper shipping name</b>	Polyamines , liquid, corrosive, n.o.s. ( m-phenylenebis(methylamine), Isophoronediamine)
<b>DOT</b>	2735 Polyamines, liquid, corrosive, n.o.s. (m-phenylenebis(methylamine), Isophoronediamine)
<b>TDG</b>	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), ISOPHORONEDIAMINE)
<b>IMDG, IATA</b>	
<b>Transport hazard class(es)</b>	
<b>DOT</b>	
	
<b>Class</b>	8 Corrosive substances
<b>Label</b>	8
<b>TDG, IMDG, IATA</b>	
	
<b>Class</b>	8 Corrosive substances
<b>Label</b>	8
<b>Packing group</b>	II
<b>DOT, TDG, IMDG, IATA</b>	
<b>Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>Special precautions for user:</b>	Warning: Corrosive substances
<b>Danger code (Kemler):</b>	80
<b>EMS Number:</b>	F-A,S-B
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>DOT</b>	
<b>Quantity limitations</b>	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L
<b>TDG</b>	
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

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<b>IMDG</b>	
<b>Limited quantities (LG)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
<b>UN "Model Regulation":</b>	UN2735, Polyamines, liquid, corrosive, n.o.s. (m-phenylenebis(methylamine), Isophoronediamine), 8, II

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### Section 15 - REGULATORY INFORMATION

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Safety, health and environmental regulations/legislation specific for the substance or mixture  
Sara

<b>Section 355 (extremely hazardous substances)</b>
None of the ingredients is listed.
<b>Section 313 (Specific toxic chemical listings)</b>
None of the ingredients is listed.
<b>TSCA (Toxic Substance Control Act):</b>
All ingredients are listed.

#### Proposition 65

<b>Chemicals known to cause cancer:</b>
None of the ingredients is listed.
<b>Chemicals known to cause reproductive toxicity for females:</b>
None of the ingredients is listed.
<b>Chemicals known to cause reproductive toxicity for males:</b>
None of the ingredients is listed.
<b>Chemicals known to cause developmental toxicity:</b>
None of the ingredients is listed.

#### Carcinogenic Categories

<b>EPA (Environmental Protection Agency):</b>
None of the ingredients is listed.
<b>TLV (Threshold Limit Value established by ACGIH):</b>
None of the ingredients is listed.
<b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
None of the ingredients is listed.

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### Canadian Substance Listings

Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
Canadian Ingredient Disclosure List (Limit 0.1%):	
None of the ingredients is listed.	
Canadian Ingredient Disclosure List (Limit 1%)	
100-51-6	Benzyl alcohol
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine
1477-55-0	m-phenylenebis(methylamine)
140-31-8	2-piperazin-1-ylethylamine

### GHS label elements:

The product is classified and labeled according to the Globally Harmonized System (GHS).

### Hazard Pictograms:



### Signal Word:

Danger

### Hazard-determining Components of Labeling:

Benzyl alcohol  
3-aminomethyl-3,5,5-trimethylcyclohexylamine  
m-phenylenebis(methylamine)  
2-piperazin-1-ylethylamine

### Hazard Statements:

Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.

### Precautionary statements:

Do not breathe dust/fume/gas/mist/vapours/spray.  
In case of inadequate ventilation wear respiratory protection.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing should not be allowed out of the workplace.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Wash contaminated clothing before reuse.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER/doctor.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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### Section 16 - OTHER INFORMATION

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#### Summary of Changes

Revision Date: October 03, 2018

Revision Note: General Update

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; 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; UEL - Upper Explosive Limit; US - United States.



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### **Other Information**

#### **Disclaimer:**

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.