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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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**PRODUCT NAME:** CCS Bonder Liquid LWL, Part B  
**SYNONYMS:** 001B  
**PRODUCT CODES:** 120B

**MANUFACTURER:** ChemCo Systems Inc.  
**ADDRESS:** 2800 Bay Road  
Redwood City, Ca. 94063  
**PHONE:** 650 261-3790

**EMERGENCY PHONE:**  
Chemtrec: Domestic: 800 424-9300  
International: +1 703 527-3887

**RECOMMENDED USE:** Epoxy Resin Hardener, For further information refer to the Product Data Sheet

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**SECTION 2: HAZARDS IDENTIFICATION**

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GHS Hazard:



**ROUTES OF ENTRY:**      **EYE:** YES      **SKIN:** YES      **INGESTION:** YES      **INHALATION:** YES

**SIGNAL WORD:** DANGER!

**PHYSICAL HAZARDS:** Not Classified

**HEALTH HAZARDS: (ACUTE AND CHRONIC)**

**EYES:** Serious eye damage Cat. 1  
**SKIN:** Skin Corrosion Cat. 1B  
Skin Sensitization Cat.1  
**INGESTION:** Not expected to be harmful under normal use  
**INHALATION:** Slightly irritating to the respiratory system  
**CARCINOGEN:** No Data

**ENVIRONMENTAL HAZARDS:**

Acute aquatic toxicity Cat.3  
Chronic aquatic toxicity Cat.3

**HAZARD STATEMENTS:** H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage.

**PRECAUTIONARY STATEMENTS:**

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.  
P262 - Do not get in eyes, on skin, or on clothing  
P264 - Wash...thoroughly after handling with soap and water.  
P272 – Contaminated work clothing should not be allowed out of the workplace.  
P273 – Avoid release to the environment.  
P280 - Wear Protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 – IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing.  
Rinse skin with water/shower.  
P304+P340+P310 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable  
For breathing. Immediately call a POISON CENTER or doctor/physician.  
P305+P351+P338 - IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses,  
If present and easy to do. Continue rinsing.  
P310 – Immediately call a POISON CENTER or doctor/physician.  
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.  
P363 – Wash contaminated clothing before reuse.  
P405 - Store locked up.  
P501 -Dispose of contents/container to an approved waste disposal plant.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

Persons with preexisting skin or respiratory disorders may have their conditions aggravated by over exposure to this material.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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HAZARDOUS COMPONENTS	CAS #:	CAL-OSHA PEL TWA (8hours)	ACGIH TLV TWA (8 hours)	Other Limits RECOMMENDED	% BY WEIGHT
Tofa, reaction products with TEPA	68953-36-6	No Data	No Data		>60
Tetraethylenepentamine	112-57-2	No Data	No Data	TWA WEEL 1ppm(5mg/m3)	<30
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	No Data	No Data		<5
Bis(dimethylaminomethyl)phenol	71074-89-0	No Data	No Data		<5

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**SECTION 4: FIRST AID MEASURES**

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- EYES:** Immediately flush eyes with water for a minimum of 15 minutes while holding eyes open. Remove contact lenses if present and easy to do. If redness, burning, blurred vision, or swelling persists, consult a physician.
- SKIN:** Remove contaminated clothing and product. Immediately wash affected area with soap and water. Do not apply greases or ointments. If skin irritation persists, consult a physician.
- INGESTION:** Rinse mouth immediately. Give small amounts of water, only if person is conscious. Only induce vomiting at the instruction of medical personnel. consult a physician
- INHALATION:** Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, consult a physician.

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**SECTION 5: FIRE-FIGHTING MEASURES**

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- SUITABLE EXTINGUISHING MEDIA:** Extinguish with foam, carbon dioxide, dry powder, or water fog.
- SPECIAL FIRE FIGHTING PROCEDURES:** Use standard fire-fighting procedures and consider the hazards of other involved materials. In case of a fire and / or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
- HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition products may occur when material polymerizes at temperatures above 500 °F (260 °C). Irritating and toxic gases/fumes may be released during a fire. Do not allow run-off from fire-fighting to enter drains or water courses.
- FLASH POINT:** 284 °F / 140 °C
- METHOD USED:** PMCC

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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- PERSONAL PROTECTION:** Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate personal protective equipment. Do not touch containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillage cannot be contained.
- ACCIDENTAL RELEASE MEASURES:** In case of spill, clean up using absorbent material such as earth or sand. Small quantities can be wiped up with cloth, place cloth in leak proof container and dispose of properly.
- WASTE DISPOSAL:** Observe Federal, State and local regulations covering chemical waste spills.

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**SECTION 7: HANDLING AND STORAGE**

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- PERSONAL PROTECTION:** Use personal protective equipment to ensure product does not contact eyes or skin when handling materials.
- HANDLING AND STORAGE:** Store in cool dry place out of direct sun rays. Keep from freezing. Recommend storage temperatures range: between 40° and 95 °F (4° - 35 °C)

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**PROTECTIVE MEASURE:** Wear appropriate personal protective equipment.

**EYE PROTECTION:** Wear appropriate safety glasses with side shields, goggles or full face shield. When working on a overhead application a full face shield is recommended.

**HAND PROTECTION:** Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.

**SKIN AND BODY PROTECTION:** Wear long sleeve shirts/long pants and other clothing as required to minimize contact.

**RESPIRATORY PROTECTION:** Do not breathe gas/fumes/vapor/ or spray. The use of a respirator is not required during general use of this product provided adequate ventilation. If grinding or cutting cured product the use of an approved respirator is recommended.

**WORK HYGIENIC PRACTICES:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**ENGINEERING CONTROLS:** When using indoors, good ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Ready access to running water is required. Provide eyewash station.

**EXPOSURE LIMITS**

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH (Pocket Guide)
Tofa, reaction products with TEPA 68953-36-6	No Data	No Data	No Data
Tetraethylenepentamine 112-57-2	No Data	No Data	No Data
Tris-2,4,6-(dimethylaminomethyl)phenol 90-72-2	No Data	No Data	No Data
Bis(dimethylaminomethyl)phenol 71074-89-0	No Data	No Data	No Data

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** Black

**ODOR:** Ammonia

**PHYSICAL STATE:** Liquid

**pH AS SUPPLIED:** basic

**BOILING POINT:** N/D

**MELTING POINT:** N/D

**FREEZING POINT:** N/D

**VAPOR PRESSURE:** <1mm @ 20C

**VAPOR DENSITY (AIR = 1):** Heavier than air

**SPECIFIC GRAVITY (H2O = 1):** 0.95

**EVAPORATION RATE:** N/D

**SOLUBILITY IN WATER:** Slight

**PERCENT SOLIDS BY WEIGHT:** N/D

**PERCENT VOLATILE:** N/D

**VOLATILE ORGANIC COMPOUNDS (VOC):** ND

**MOLECULAR WEIGHT:** ND

**VISCOSITY:** 3

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**SECTION 10: STABILITY AND REACTIVITY**

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**STABILITY:** Stable

**CONDITIONS TO AVOID (STABILITY):** Exposure to excessive heat and open flame

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong acids, peroxides and other oxidizing agents.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Normal combustion forms carbon dioxide, carbon monoxide, oxides o carbon and other organic compounds,

**HAZARDOUS POLYMERIZATION:** Will not occur

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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<b>Toxicity</b>	<b>CAS#</b>	
Acute Oral Toxicity:		No data available on the product itself
Oral-Components		
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	LD50 2,169 mg/kg Species: Rat
Acute Dermal Toxicity:		No data available on the product itself
Dermal-Components		
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	LD50 >1ml/kg Species:Rat
Acute Inhalation Toxicity		No data available on the product itself
Inhalation-Components		
Skin Corrosion/ Irritation:		Skin corrosion
Corrosion/Irritation Components		
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	Corrosive
Eye Damage/Irritation:		Severe eye damage
Damage/Irritaion Components		
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	Extremely irritating and possibly corrosive
Respiratory Damage/Irritation:		No data available on the product itself
Damage/irritation Components		
Sensitization:		Moderate Dermal Sensitization.
Germ Cell Mutagenicity		The product or a component may be mutagenic, the data is inconclusive.
Maternal Toxicity:		No data available on the product itself
<b>Carcinogenicity:</b>		This product contains no listed carcinogens according to IARC,ACGIH,NTP and/or OSHA in concentrations of 0.1 percent or greater.
<b>Classification</b>		
<b>ACGIH:</b>		Not Classified
<b>IARC:</b>		Not Classified
<b>NTP</b>		Not Listed
<b>OSHA</b>		Not Classified

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**SECTION 12: ECOLOGICAL INFORMATION**

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<b>ECOTOXICITY:</b>	<b>CAS#</b>	
Aquatic toxicity:		
Toxicity to Fish-Components		LC50(24hr) 222 mg/l Species: Rainbow trout
Toxicity to algae-Components		
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	Harmful to algae
Toxicity-Aquatic Invertebrates		EC50(72hr) 84mg/l Species: Scenedesmus subspicatus
Toxicity to other organisms:		
<b>PERSISTENCE &amp; DEGRADABILITY:</b>		
BIODEGRADABILITY:		No data available on product itself
Biodegradability-Components		
BIOACCUMULATIVE POTENTIAL:		No data available on product itself
Bio Accumulative-Components:		
MOBILITY IN SOIL:		NDA
<b>OTHER ADVERSE EFFECTS:</b>		NDA
<b>AQUATIC RELEASE:</b>		Advise authorities if product has entered or may enter watercourses or sewer drains.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Do not allow this material to drain into sewers / waterways, ditches, containment pools or water supplies. Dispose of contents / containers in accordance with local/regional/international regulations.

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**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION**

**PROPER SHIPPING NAME:** Amines, liquid, corrosive, n.o.s. (Polyamidoamine, Tetrathylenepentamine mixture)  
**HAZARD CLASS:** 8  
**ID NUMBER:** UN2735  
**PACKING GROUP:** III  
**LABEL STATEMENT:** Corrosive, Hazard Class 8, Packing Group: PG III

**WATER TRANSPORTATION**

**PROPER SHIPPING NAME:** Amines, liquid, corrosive, n.o.s. (Polyamidoamine, Tetrathylenepentamine mixture), Marine Pollutant  
**HAZARD CLASS:** 8  
**ID NUMBER:** UN2735  
**PACKING GROUP:** III  
**LABEL STATEMENT:** Corrosive, Hazard Class 8, Packing Group: PG III

**AIR TRANSPORTATION**

**PROPER SHIPPING NAME:** Amines, liquid, corrosive, n.o.s. (Polyamidoamine, Tetrathylenepentamine mixture), Marine Pollutant  
**HAZARD CLASS:** 8  
**ID NUMBER:** UN2735  
**PACKING GROUP:** III  
**LABEL STATEMENT:** Corrosive, Hazard Class 8, Packing Group: PG III

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS****TSCA (TOXIC SUBSTANCE CONTROL ACT):**

**CERCLA (COMPREHENSIVE RESPONSE  
COMPENSATION, AND LIABILITY ACT):** Not Listed

**OSHA:** 29 CFR 1910.1200 (Hazard Communication required)

**WHMIS** Class E: Corrosive, Class D-2A Material Causing other toxic effects)

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**

<b>302/304</b>	No	
<b>311/312 HAZARD CATEGORIES:</b>	Acute Health Hazard:	Yes
	Chronic Health Hazard:	Yes
	Fire Hazard:	No
	Pressure Release Hazard:	No
	Reactivity Hazard:	No
<b>313 REPORTABLE INGREDIENTS:</b>	None	

**STATE REGULATIONS:****CALIFORNIA PROPOSITION 65 (THE SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT of 1986)**

This product does not contain known levels of any chemicals known to cause cancer or reproductive harm.

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**SECTION 16: OTHER INFORMATION**

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<b>HAZARDOUS MATERIALS IDENTIFICATION SYSTEM</b>	
<b>HMIS HAZARD RATING</b>	
<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>REACTIVITY</b>	<b>1</b>
<b>PERSONAL PROTECTION</b>	<b>C</b>
<b>4 – Severe, 3 – Serious, 2 – Moderate, 1 - Slight</b>	
<b>C – (Safety glasses, gloves, apron)</b>	

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The information provided herein was believed by ChemCo Systems to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use.