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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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**PRODUCT NAME:** CCS Utility Coating LV, Part B  
**SYNONYMS:** 064LVB  
**PRODUCT CODES:** 191B

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

**EMERGENCY PHONE:**  
Chemtrec: Domestic: 800 424-9300  
International: +1 202-483-7616

**RECOMENDED USE:** Epoxy Resin, 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:**      **EYES:** YES      **SKIN:** YES      **INGESTION:** YES      **INHALATION:** YES

**SIGNAL WORD:** DANGER!

**PHYSICAL HAZARDS:**

Combustible IIIB

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

**EYES:** Serious Eye Damage Cat. 1.

**SKIN:** Acute Dermal Toxicity Cat. 3  
Skin Sensitization Cat. 1.  
Skin Corrosion Cat. 1B

**INGESTION:** Acute Oral Toxicity Cat. 4  
Reproductive Toxicity Cat. 2.

**INHALATION:** Reproductive Toxicity Cat. 2

**ENVIRONMENTAL HAZARDS:**

Acute Aquatic Cat.1  
Chronic Aquatic Cat.1

**HAZARD STATEMENTS:**

H227 - Combustible liquid  
H302+H312+H332 - Harmful if swallowed, inhaled or in contact with skin  
H311 - Toxic in contact with skin.  
H314 - Causes severe skin burns and eye damage  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation.  
H360 - May damage fertility or the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure in contact with skin (CNS).  
H410 - Very toxic to aquatic life with long lasting effects

**PRECAUTIONARY STATEMENTS:**

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety regulations have been read and understood.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash...thoroughly after handling with soap and water  
P270 - Do not eat, drink or smoke when using this product.  
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

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## Safety Data Sheet

P301+P312 - IF SWALLOWED Call a POISON CENTER or doctor/physician if you feel unwell.  
 P301+P330+P331 - IF SWALLOWED rinse mouth. DO NOT induce vomiting.  
 P304+P340 - IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P303+P361+P353 - If ON SKIN(or hair):Remove/ take off immediately all contaminated clothing. Rinse skin with water/shower.  
 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.  
 P361 - Remove/ Take off immediately all contaminated clothing.  
 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.

This product is not for use in an aerosol or spray. This product contains a component that is toxic by inhalation when aerosolized or sprayed. Refer to Section 11 of the SDS for toxicity information. Review the toxicity information against your intended use. If product is not being aerosolized or sprayed, inhalation toxicity is not applicable.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #:	CAL-OSHA PEL TWA (8hours)	ACGIH TLV TWA (8 hours)	Other Limits RECOMMENDED	% BY WEIGHT
4-Nonyl phenol, branched	84852-15-3	No Data	No Data		<10%
Dinonylphenol-, branched	84962-08-3	No Data	No Data		<70%
1-(2-Aminoethyl)piperazine	140-31-8	No Data	No Data		<25%
Polyoxypropylenediamine	9046-10-0	No Data	No Data		<8%
Glycerol poly(oxy propylene)triamine	64852-22-8	No Data	No Data		<6%
Triethylenetetramine	112-24-3	No Data	No Data	AIHA WEEL TWA 1ppm	<5%

### SECTION 4: FIRST AID MEASURES

**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.

### SECTION 5: FIRE-FIGHTING MEASURES

**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:** 212 °F / 100 °C

**METHOD USED:** AEP (TCC)

### 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.

### SECTION 7: HANDLING AND STORAGE

- 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 sunrays. Keep from freezing. Recommend storage temperatures range: between 40° and 95 °F (4° - 35 °C)

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 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/vapour/ 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)
4-Nonyl phenol, branched 84852-15-3	No Data	No Data	No Data
Dinonylphenol-, branched 84962-08-3	No Data	No Data	No Data
1-(2-Aminoethyl)piperazine 140-31-8	No Data	No Data	No Data
Polyoxypropylenediamine 9046-10-0	No Data	No Data	No Data
Glycerol poly(oxy propylene)triamine 64852-22-8	No Data	No Data	No Data
Triethylenetetramine 112-24-3	No Data	No Data	No Data

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE:** Clear Amber
- ODOR:** Ammonia
- PHYSICAL STATE:** Liquid
- pH AS SUPPLIED:** Basic
- BOILING POINT:** 239 C (AEP)
- MELTING POINT:** N/D
- FREEZING POINT:** N/D
- VAPOR PRESSURE (mm Hg):** 1 mmHg 20C (DETA)
- VAPOR DENSITY (AIR = 1):** Heavier than air
- SPECIFIC GRAVITY (H2O = 1):** 0.95
- EVAPORATION RATE:** Negligible
- SOLUBILITY IN WATER:** Slight
- PERCENT SOLIDS BY WEIGHT:** No Data
- PERCENT VOLATILE:** Negligible
- VOLATILE ORGANIC COMPOUNDS (VOC):** No Data

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**MOLECULAR WEIGHT:** N/D  
**VISCOSITY:** 1400 cps.

**SECTION 10: STABILITY AND REACTIVITY**

**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 of carbon and other organic compounds,  
**HAZARDOUS POLYMERIZATION:** Will not occur

**SECTION 11: TOXICOLOGICAL INFORMATION**

	CAS#	
Acute Oral Toxicity:		No data available on the product itself
Oral-Components		
1-(2-Aminoethyl)piperazine	<b>140-31-8</b>	LD50: 2097 mg/kg Species: Rat (OECD GHS)
4-Nonyl phenol, branched	<b>84852-15-3</b>	LD50 Oral Rat M/F: 1412 mg/kg
Dinonylphenol-, branched	<b>84962-08-3</b>	Causes digestive tract burns. Harmful if swallowed
Polyoxypropylenediamine	<b>9046-10-0</b>	LD50: 2885.3 mg/kg Species:Rat M/F
Glycerol poly(oxy propylene)triamine	<b>64852-22-8</b>	LD50 2690 mg/kg Species:Rat
Triethylenetetramine	<b>112-24-3</b>	LD50 2,500 mg/kg Species:Rat
Acute Dermal Toxicity:		No data available on the product itself
Dermal-Components		
1-(2-Aminoethyl)piperazine	<b>140-31-8</b>	LD50 0.88ml/kg (866mg/kg) Species:Rat
4-Nonyl phenol, branched	<b>84852-15-3</b>	LD50 Dermal Rabbit M : 2031 mg/kg
Dinonylphenol-, branched	<b>84962-08-3</b>	Causes severe skin burns
Polyoxypropylenediamine	<b>9046-10-0</b>	LD50 2979.7 mg/kg Species: Rabbit M/F
Glycerol poly(oxy propylene)triamine	<b>64852-22-8</b>	LD50 12500 mg/kg Species: Rabbit
Triethylenetetramine	<b>112-24-3</b>	LD50 550 mg/kg Species: Rabbit
Acute Inhalation Toxicity:		No data available on the product itself
Inhalation/toxicity Components		
4-Nonyl phenol, branched	<b>84852-15-3</b>	May cause irritation to the respiratory system
Dinonylphenol-, branched	<b>84962-08-3</b>	May cause irritation to the respiratory system
Polyoxypropylenediamine	<b>9046-10-0</b>	LC50 >0.74 mg/l Species:Rat M/F
Skin Corrosion/ Irritation:		Severe Skin Irritation/Corrosion
Corrosion/Irritation Components		
1-(2-Aminoethyl)piperazine	<b>140-31-8</b>	Severe Corrosive (skin)
4-Nonyl phenol, branched	<b>84852-15-3</b>	Severe Corrosive (skin)
Dinonylphenol-, branched	<b>84962-08-3</b>	Severe Corrosive (skin)
Polyoxypropylenediamine	<b>9046-10-0</b>	Severe Corrosive (skin)
Triethylenetetramine	<b>112-24-3</b>	Severe Skin Irritation 24hr Species: Rabbit
Eye Damage/Irritation:		Severe eye damage/irritation
Damage/Irritation Components		
1-(2-Aminoethyl)piperazine	<b>140-31-8</b>	Severe eye damage
Polyoxypropylenediamine	<b>9046-10-0</b>	Corrosive (eyes)
Triethylenetetramine	<b>112-24-3</b>	Severe eye irritation
Respiratory Damage/Irritation:		Severe respiratory damage/irritation.
Damage/irritation Components		
4-Nonyl phenol, branched	<b>84852-15-3</b>	Severe eye damage
Dinonylphenol-, branched	<b>84962-08-3</b>	Severe eye damage
Sensitization:		May cause sensitization by inhalation and skin contact.
Sensitization Componentes		
1-(2-Aminoethyl)piperazine	<b>140-31-8</b>	Sensitizer (skin)
Germ Cell Mutagenicity		
1-(2-Aminoethyl)piperazine	<b>140-31-8</b>	Weakly mutagenic

Maternal Toxicity:

No data available on the product itself

**Carcinogenicity:** This product contains no listed carcinogens according to IARC,ACGIH,NTP and/or OSHA in concentrations of 0.1 percent or greater.  
**ACGIH:** No data  
**IARC:** No data  
**NTP:** No data  
**OSHA:** No data

**SECTION 12: ECOLOGICAL INFORMATION**

<b>ECOTOXICITY:</b>	CAS#	
Aquatic toxicity:		Exposure at low concentrations may kill fish
Toxicity to Fish-Components		
1-(2-Aminoethyl)piperazine	<b>140-31-8</b>	LC50(96hr): 2190 mg/l Species Fathead Minnow
4-Nonyl phenol, branched	<b>84852-15-3</b>	LC50(96hr): 0.05 mg/l Species: Fish
Dinonylphenol-, branched	<b>84962-08-3</b>	LC50(24hr): 2.725 mg/l Species: Fish
Polyoxypropylenediamine	<b>9046-10-0</b>	LD50(96hr): 772 mg/l Species: Fish
Glycerol poly(oxy propylene)triamine	<b>64852-22-8</b>	LC50(96hr): 68 mg/l Species: Fish
Toxicity to algae-Components		
1-(2-Aminoethyl)piperazine	<b>140-31-8</b>	EC50(72hr): >1000mg/l Species: Algae (Selenastrum capricornutum)
4-Nonyl phenol, branched	<b>84852-15-3</b>	EbC50(72hr): 1.3 mg/l Species: Algae
Polyoxypropylenediamine	<b>9046-10-0</b>	ErC50(72hr): 15 mg/l Species: Algae
Toxicity-Aquatic Invertebrates		
1-(2-Aminoethyl)piperazine	<b>140-31-8</b>	EC50(48hr): 58mg/l Species: Daphnia magna
4-Nonyl phenol, branched	<b>84852-15-3</b>	EC50(48hr): 0.14 mg/l Species: Daphnia
Dinonylphenol-, branched	<b>84962-08-3</b>	EC50(24hr): 0.5mg/l Species: Daphnia
Polyoxypropylenediamine	<b>9046-10-0</b>	EC50(48hr): 80 mg/l Species: Daphnia
Toxicity to other organisms:		EC50(30min): 156mg/l Bacteria: Pseudomonas putida
 <b>PERSISTENCE &amp; DEGRADABILITY:</b>		
BIODEGRADABILITY:		
Biodegradability-Components		
4-Nonyl phenol, branched	<b>84852-15-3</b>	OECD 56 days : 50%
Polyoxypropylenediamine	<b>9046-10-0</b>	Not Biodegradable 0% 28-days
Glycerol poly(oxy propylene)triamine	<b>64852-22-8</b>	<5% 28-days
BIOACCUMULATIVE POTENTIAL:		
BioAccumulative-Components:		
4-Nonyl phenol, branched	<b>84852-15-3</b>	BCF 740 High
MOBILITY IN SOIL:		
OTHER ADVERSE EFFECTS:		
AQUATIC RELEASE:		
		Advise authorities if product has entered or may enter watercourses or sewer drains.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**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.

**SECTION 14: TRANSPORT INFORMATION**

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

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**PROPER SHIPPING NAME:** Alkylphenols, liquid, n.o.s. (Phenol,Dinonyl, Aminoethylpiperazine)  
**HAZARD CLASS:** 8  
**ID NUMBER:** UN3145  
**PACKING GROUP:** III

**WATER TRANSPORTATION (IMDG)**

**PROPER SHIPPING NAME:** Alkylphenols, liquid, n.o.s. (Phenol,Dinonyl, Aminoethylpiperazine), Marine Pollutant  
**HAZARD CLASS:** 8  
**ID NUMBER:** UN3145  
**PACKING GROUP:** III

**AIR TRANSPORTATION (IATA / ICAO)**

**PROPER SHIPPING NAME:** Alkylphenols, liquid, n.o.s. (Phenol,Dinonyl, Aminoethylpiperazine)  
**HAZARD CLASS:** 8  
**ID NUMBER:** UN3145  
**PACKING GROUP:** 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):**

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

**STATE REGULATIONS:**

**CALIFORNIA PROPOSITION 65 (THE SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT)**  
 This product contains chemicals in trace quantities that are on the California Proposition 65 carcinogens list.

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**SECTION 16: OTHER INFORMATION**

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

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.