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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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**PRODUCT NAME:** CCS Paste, Low Modulus, Part A  
**SYNONYMS:** 059  
**PRODUCT CODES:** 223A

**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

**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:**      **EYE:** YES      **SKIN:** YES      **INGESTION:** YES      **INHALATION:** YES

**SIGNAL WORD:** **WARNING!**

**PHYSICAL HAZARDS:** Not Classified

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

**EYES:** Eye Irritant Cat. 2  
**SKIN:** Skin Irritant Cat. 2  
Skin Sens. Cat.1  
**INGESTION:** Genetic Mutagenicity Cat. 3  
**INHALATION:** Genetic Mutagenicity Cat. 3

**ENVIRONMENTAL HAZARDS:**

Acute Aquatic Cat.2  
Chronic Aquatic Cat.2

**HAZARD STATEMENTS:** H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H411 - Toxic to aquatic life with long lasting effects  
H341 - Suspected of causing genetic defects

**PRECAUTIONARY STATEMENTS:**

P261 - Avoid breathing dust/fumes/gas/mist/vapors/spray.  
P264 - Wash...thoroughly after handling with soap and water  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear Protective gloves/protective clothing/eye protection/face protection  
P273 - Avoid release to the environment  
P302+P352 - IF ON SKIN Wash with plenty of soap and water.  
P308+P313 - IF exposed or concerned - Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs. Get medical advice/attention.  
P362 - Take off contaminated clothing and wash 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
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	No Data	No Data		50-70
2,3-epoxypropyl o-tolyl ether	2210-79-9	No Data	No Data		<2
9-Octadecenoic acid, 12-(2-oxiranylmethoxy)-, 1,2,3-propanetriyl ester	74398-71-3	No Data	No Data		<28
Treated fumed silica	67762-90-7	No Data	No Data		7

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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:** >205 °F / 124 °C
- METHOD USED:** TCC

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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 an 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)
Bisphenol-A - epichlorohydrin epoxy resin 25068-38-6	No Data	No Data	No Data
2,3-epoxypropyl o-tolyl ether 2210-79-9	No Data	No Data	No Data
9-Octadecenoic acid, 12-(2-oxiranylmethoxy)-, 1,2,3-propanetriyl ester 74398-71-3	No Data	No Data	No Data
Treated fumed silica 67762-90-7	No Data	3mg/m3 Respirable particles	No Data

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** Amber Color/ opaque

**ODOR:** Slight

**PHYSICAL STATE:** Paste

**pH AS SUPPLIED:** N/D

**BOILING POINT:** >250 C

**MELTING POINT:** N/D

**FREEZING POINT:** N/D

**VAPOR PRESSURE (mmHg):** N/D

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

**SPECIFIC GRAVITY (H2O = 1):** 1.09

**EVAPORATION RATE:** Negligible

**SOLUBILITY IN WATER:** Negligible

**PERCENT SOLIDS BY WEIGHT:** 0%

**PERCENT VOLATILE:** Slight

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

**MOLECULAR WEIGHT:** ND

**VISCOSITY:** 220 poise

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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 of carbon and other organic compounds,

**HAZARDOUS POLYMERIZATION:** Will not occur

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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	<b>CAS#</b>	
Acute Oral Toxicity:		No data available on the product itself
Oral-Components		
Acute Dermal Toxicity:		No data available on the product itself
Dermal-Components		
Acute Inhalation Toxicity:		No data available on the product itself
Inhalation-Components		
Skin Corrosion/ Irritation:		
Corrosion/Irritation Components		
Eye Damage/Irritation:		
Damage/Irritation Components		
Respiratory Damage/Irritation:		
Damage/irritation Components		
Sensitization:		May cause sensitization by inhalation and skin contact.
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>ACGIH:</b>		No data
<b>IARC:</b>		No data
<b>NTP</b>		No data
<b>OSHA</b>		No data

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**SECTION 12: ECOLOGICAL INFORMATION**

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<b>ECOTOXICITY:</b>	<b>CAS#</b>	
Aquatic toxicity:		No data on product itself
Toxicity to Fish-Components		
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	LC50(96hr) 1.5mg/l Species: Salo Gairdneri
Toxicity to algae-Components		
Toxicity-AquaticInvertabrates		
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	EC50(48hr) 2.7mg/l Species: Daphnia Magna
Toxicity to other organisms:		
<b>PERSISTENCE &amp; DEGRADABILITY:</b>		
<b>BIODEGRADABILITY:</b>		No data available on product itself
Biodegradability-Components		
<b>BIOACCUMULATIVE POTENTIAL:</b>		No data available on product itself
BioAccumulaive-Components:		
<b>MOBILITY IN SOIL:</b>		NDA
<b>OTHER ADVERSE EFFECTS:</b>		NDA
<b>AQUATIC RELEASE:</b>		Advise authorities if product has entered or may enter watercourses or sewer

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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:**  
**HAZARD CLASS:**  
**ID NUMBER:** Not Regulated for Transportation  
**PACKING GROUP:**  
**LABEL STATEMENT:**

**WATER TRANSPORTATION**

**PROPER SHIPPING NAME:** Environmentally hazardous substance, liquid n.o.s. (Epoxy Resin Mixture), Marine Pollutant  
**HAZARD CLASS:** 9  
**ID NUMBER:** UN3082  
**PACKING GROUP:** III  
**LABEL STATEMENT:**

**AIR TRANSPORTATION**

**PROPER SHIPPING NAME:** Environmentally hazardous substance, liquid n.o.s. (Epoxy Resin Mixture), Marine Pollutant  
**HAZARD CLASS:** 9  
**ID NUMBER:** UN3082  
**PACKING GROUP:** III  
**LABEL STATEMENT:**

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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):** NA

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

**WHMIS:** Class D-2B, Material causing other toxic effects

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

302/304

**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:** NA

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

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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.