
SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CCS AC-1 for Asphalt, Part A
SYNONYMS: 110
PRODUCT CODES: 110A

MANUFACTURER: ChemCo Systems Inc.
ADDRESS: 2800 Bay Road
Redwood City, Ca. 94062
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.

SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard:



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

SIGNAL WORD: DANGER!

PHYSICAL HAZARDS:

HEALTH HAZARDS: (ACUTE AND CHRONIC)

EYES: Eye Irritant Cat. 2
SKIN: Skin Irritant Cat. 2; Sensitization Cat. 1
INGESTION: N/D
INHALATION: Aspiration Cat. 1

ENVIRONMENTAL HAZARDS:

Acute Aquatic Cat. 1
Chronic Aquatic Cat. 1

HAZARD STATEMENTS:

H226 - Flammable liquid and vapor
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H318 - Causes serious eye damage
H410 - Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS:

P210 - Keep away from heat/spark/open flames/hot surfaces. No smoking.
P233 - Keep container tightly closed.
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
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated place.
P273 - Avoid release to the environment.
P280 - Wear Protective gloves/protective clothing/eye protection/face protection.
P301+P310 - IF SWALLOWED Immediately call a POISON CENTER and DOCTOR.
P303+P361+P353 - IF ON SKIN(or hair) Remove/Take off immediately all contaminated clothing. Rinse skin water/shower.
P304+P340+P312 - IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338 - IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, If present and easy to do. Continue rinsing.
P331 - Do not induce vomiting
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P403+P235 - Store in a well-ventilated place. Keep cool.
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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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		<85
Pine oil (Terpene Alcohols)	8002-09-3(8006-64-2)	No Data	No Data		<30
Urea RPW formaldehyde, butylated	68002-19-7	No Data	No Data		<0.5

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:** 172.4 °F / 78 °C
- METHOD USED:** Tag CC

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 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 rays of the sun. 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/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
Pine oil (Terpene Alcohols) 8002-09-3 (8006-64-2)	TWA 100ppm (560 mg/m3)	No Data	TWA 100ppm (560 mg/m3)
Urea RPW formaldehyde, butylated 68002-19-7	No Data	No Data	No Data

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Amber Color

ODOR: mild

PHYSICAL STATE: Liquid

pH AS SUPPLIED: N/D

BOILING POINT: >206F

MELTING POINT: N/D

FREEZING POINT: N/D

VAPOR PRESSURE (mmHg): <1mm Hg

VAPOR DENSITY (AIR = 1): N/D

SPECIFIC GRAVITY (H2O = 1): 1.1

EVAPORATION RATE: N/D

SOLUBILITY IN WATER: N/D

PERCENT SOLIDS BY WEIGHT: 0%

PERCENT VOLATILE: N/D

VOLATILE ORGANIC COMPOUNDS (VOC): ND

MOLECULAR WEIGHT: ND

VISCOSITY: 1000 cp

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

Toxicity	CAS#	
Acute Oral Toxicity:		No data available on the product itself
Oral-Components		
Pine oil (Terpene Alcohols)	8002-09-3 (8006-64-2)	LC50(4hr) 13.7mg/l
Skin Corrosion/ Irritation:		
Corrosion/Irritation Components		
Pine oil (Terpene Alcohols)	8002-09-3 (8006-64-2)	Irritating
Eye Damage/Irritation:		
Damage/Irritation Components		
Sensitization components		
Pine oil (Terpene Alcohols)	8002-09-3 (8006-64-2)	Sensitizing
Germ Cell Mutagenicity		
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

ECOTOXICITY:	CAS#	
Aquatic toxicity:		No data on product itself
Toxicity to Fish-Components		
Pine oil (Terpene Alcohols)	8002-09-3 (8006-64-2)	LL50(96hr) 29mg/l Species: Danio rerio
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	LC50(96hr) 1.5mg/l Species: Salo Gairdneri
Toxicity to algae-Components		
Pine oil (Terpene Alcohols)	8002-09-3 (8006-64-2)	EL50(72hr) 17.1mg/l Species: Desmodosmus Subspicatus
Toxicity-Aquatic Invertabrates		
Pine oil (Terpene Alcohols)	8002-09-3 (8006-64-2)	EL50(48hr) 6.4mg/l Species: Daphnia Magna
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	EC50(48hr) 2.7mg/l Species: Daphnia Magna
Toxicity to other organisms:		
Toxicity-Other organisms		
PERSISTENCE & DEGRADABILITY:		
BIODEGRADABILITY:		No data available on product itself
Biodegradability-Components		
Pine oil (Terpene Alcohols)	8002-09-3 (8006-64-2)	Readily Biodegradable, but failing 10 day window
BIOACCUMULATIVE POTENTIAL:		No data available on product itself
BioAccumulative-Components:		
OTHER ADVERSE EFFECTS:		NDA
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)

PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER: Not Regulated for transportation
PACKING GROUP:
LABEL STATEMENT:

WATER TRANSPORTATION (IMDG)

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: Marine Pollutant

AIR TRANSPORTATION (IATA / ICAO)

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

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):
**CERCLA (COMPREHENSIVE RESPONSE
 COMPENSATION, AND LIABILITY ACT):**

OSHA: 29 CFR 1910.1200 (Hazard Communication required)
WHMIS Class D-2B

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

302/304 N/A
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: N/A

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.

SECTION 16: OTHER INFORMATION

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)	

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.

