

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CCS Epoxy Healer/Sealer, Part B
SYNONYMS: 186B
PRODUCT CODES: 186B

MANUFACTURER: ChemCo Systems Inc.
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Redwood City, Ca. 94063
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RECOMMENDED USE: Epoxy Resin Hardener, For further information refer to the Product Data Sheet.

SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard:



ROUTES OF ENTRY: **EYES:** 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 Irritant Cat. 2
Acute Toxicity Cat. 4
Skin Sensitization Cat. 1.
Skin Corrosion Cat. 1B
INGESTION: Acute Oral Toxicity Cat. 4
INHALATION: Acute Toxicity Cat. 4.
OTHER: Reproductive Toxicity Cat. 2
Specific Target Organ Toxicity – single exposure Cat. 3

ENVIRONMENTAL HAZARDS:

Acute Aquatic Cat.2
Chronic Aquatic Cat.1
Acute Toxicity Cat.4

HAZARD STATEMENTS:

H227 - Combustible liquid
H302+H312+H332 - Harmful if swallowed, inhaled or 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
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H335 - May cause respiratory irritation
H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure if swallowed.
H410 - Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS:

P201 - Obtain special instructions before use
P260 - Do not breathe fume/gas/mist/vapors/spray
P261 - Avoid breathing 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
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment

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P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P281 - Use personal protective equipment as required
 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.
 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+P337+P313 - If skin irritation or rash occurs and/or eye irritation persists: Get medical advice/attention.
 P363 - Wash contaminated clothing before reuse.
 P403+P233 - Store in a well ventilated place. Keep container tightly closed.
 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.

HAZARDS NOT OTHERWISE CLASSIFIED

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, the inhalation toxicity may not be applicable.
 Very toxic by inhalation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #:	CAL-OSHA PEL TWA (8hours)	ACGIH TLV TWA (8 hours)	Other Limits RECOMMENDED	% BY WEIGHT
1,3 Benzenedimethanamine	1477-55-0	No Data	0.1 mg/m ³		>10%
Diethylenetriamine	111-40-0	No Data	No Data		>10%
Phenol, 4,4'-(1-methylethylidene)bis	80-05-7	No Data	No Data		>10%

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. Get medical attention immediately. If physician is not available, continue flushing with water for 1 hour. Do NOT use chemical antidote.

SKIN: Remove contaminated clothing and product and wash before reuse with a heavy detergent. Immediately wash affected area with soap and water for 15 minutes. Do not apply greases or ointments. If skin irritation persists, consult a physician.

INGESTION: Rinse mouth immediately and drink two large glasses of water. Never give anything by mouth to an unconscious person. 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 experiences difficulty breathing or a burning sensation in the throat or chest get medical attention immediately.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Extinguish with foam, carbon dioxide, dry powder, or water fog. Water or foam may cause frothing, especially if sprayed directly into containers of hot, burning liquid.

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 such as carbon monoxide, ammonia gas, toxic nitrogen oxide gases, and amines 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: 102 C (216F)
METHOD USED: TCC

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, including a self-contained breathing apparatus and chemical protective clothing. 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. Evacuate personnel to safe areas.
- 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. This material is toxic to fish and other aquatic organisms. Do not allow run-off to enter rivers, streams, lakes, or other bodies of water.
- 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. Eye wash facilities and an emergency shower must be readily available when handling this product.
- 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). Store away from oxidizing materials and acids.

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, impervious gloves such as: Nitrile, neoprene, butyl.
- SKIN AND BODY PROTECTION:** Wear impervious 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)
Diethylenetriamine 111-40-0	1 ppm (4mg/m3)	1 ppm (4mg/m3)	1 ppm (4mg/m3)
1,3 Benzenedimethanamine 1477-55-0	No Data	0.1 mg/m ³	No Data
Phenol, 4,4'-(1-methylethylidene)bis 80-05-7	No Data	No Data	No Data

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Dark purple/black
ODOR:	Mild/ Ammonia
PHYSICAL STATE:	Liquid
pH AS SUPPLIED:	Basic
BOILING POINT:	217 F (103 C)
MELTING POINT:	N/D
FREEZING POINT:	N/D
VAPOR PRESSURE (mmHg):	1mm (DETA)
VAPOR DENSITY (AIR = 1):	Heavier than air
SPECIFIC GRAVITY (H2O = 1):	0.97
EVAPORATION RATE:	Negligible
SOLUBILITY IN WATER:	Slight
PERCENT SOLIDS BY WEIGHT:	No Data
PERCENT VOLATILE:	N/D
VOLATILE ORGANIC COMPOUNDS (VOC):	N/D
MOLECULAR WEIGHT:	N/D
VISCOSITY:	95 Cps

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable under normal conditions of temperature and pressure.
CONDITIONS TO AVOID (STABILITY):	Exposure to excessive heat and open flame
INCOMPATIBILITY (MATERIAL TO AVOID):	Strong acids, reactive metals, peroxides and other oxidizing agents.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	Normal combustion forms carbon dioxide, carbon monoxide, oxides of nitrogen and other organic compounds,
HAZARDOUS POLYMERIZATION:	Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD ₅₀ (rat) 930 mg/kg
Acute Dermal Toxicity:	LD ₅₀ (Rabbit) 1,090 mg/kg
Acute Inhalation Toxicity:	No data available on the product itself
Skin Corrosion/ Irritation:	Severe Skin Irritation/Corrosion
Eye Damage/Irritation:	Severe eye damage/irritation
Respiratory Damage/Irritation:	Severe respiratory damage/irritation.
Germ Cell Mutagenicity	The product or a component may be mutagenic, the data is inconclusive.
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:

96 hr. LC ₅₀ Oryzias Latipes	87.6 mg/l (OECD 203)
48 hr. EC ₅₀ Daphnia magna	15.2 mg/l (OECD 202)
72 hr EC ₅₀ Selenastrum capricornutum	20.3 mg/l, NOEC 10.5 mg/l (OECD 201)
21 day NOEC Daphnia magna	4.7 mg/l (OECD 211)
Toxicity to STP Microorganisms 3 hr EC ₅₀	>1000 mg/l, activated sludge (OECD 209)

PERSISTENCE & DEGRADABILITY:

BIODEGRADABILITY: Not readily biodegradable. 49% degradation in a CO₂ evolution Ready Biodegradation test in 28 days (OECD 301B)

BIOACCUMULATIVE POTENTIAL: Will not bio-accumulate – (calculated BCF value 3.16 l/kg)
Partition coefficient @ 77 °F (25 °C) – 0.18 OECD107

MOBILITY IN SOIL: The product is miscible in water and may spread in water systems.

OTHER ADVERSE EFFECTS: None known.

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.
Incineration is the recommended disposal method for chemical wastes such as this product and residues of this product.
This product, if disposed of, may be considered a corrosive waste (D002) under current RCRA regulations due to the pH of the material.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME: Amines, liquid, corrosive, n.o.s. (m-xylenediamine mixture)
HAZARD CLASS: 8
ID NUMBER: UN2735
PACKING GROUP: II
LABEL STATEMENT: Corrosive

WATER TRANSPORTATION (IMDG)

PROPER SHIPPING NAME: Amines, liquid, corrosive, n.o.s. (m-xylenediamine mixture), Marine Pollutant
HAZARD CLASS: 8
ID NUMBER: UN2735
PACKING GROUP: II
LABEL STATEMENT: Corrosive

AIR TRANSPORTATION (IATA / ICAO)

PROPER SHIPPING NAME: Amines, liquid, corrosive, n.o.s. (m-xylenediamine mixture) , Marine Pullutant
HAZARD CLASS: 8
ID NUMBER: UN2735
PACKING GROUP: II
LABEL STATEMENT: Corrosive

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Included on inventory

**CERCLA (COMPREHENSIVE RESPONSE
COMPENSATION, AND LIABILITY ACT):**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

302:	N/A	
311/312 HAZARD CATEGORIES:	Acute Health Hazard:	Yes
	Chronic Health Hazard:	No
	Fire Hazard:	No
	Pressure Release Hazard:	No
	Reactivity Hazard:	No
313 PORTABLE INGREDIENTS:	Phenol, 4,4'-(1-Methylethylidene)bis	

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.

SECTION 16: OTHER INFORMATION

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.