

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

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.

SECTION 2: HAZARDS IDENTIFICATION

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: Eye Irritant Cat. 2
SKIN: Skin Irritant Cat. 2
Skin Sensitization Cat. 1
INGESTION: No Data
INHALATION: Respiratory Irritant

ENVIRONMENTAL HAZARDS:

Acute Aquatic Cat.2
Chronic Aquatic Cat.2

HAZARD STATEMENTS: H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS:

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.
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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove Contact lenses, if present and easy to do. Continue rinsing.
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.
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
2,3-epoxypropyl o-tolyl ether	2210-79-9	No data available	No data available	N/E	<20%

CCS Epoxy Healer/Sealer, Part A
Safety Data Sheet



Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	9003-36-5	No data available	No data available	N/E	<60%
Hexamethylene diacrylate	13048-33-4			1 mg/m3 (DSEN) OARS-WEEL	<18
Trimethylolpropane triacrylate	15625-89-5			1 mg/m3 (skin) OARS-WEEL	<9

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: >250 °F / 121 °C

METHOD USED: PMCC

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 sun rays. 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)
2,3-epoxypropyl o-tolyl ether 2210-79-9	No data available	No data available	No data available
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol 9003-36-5	No data available	No data available	No data available
Hexamethylene diacrylate 13048-33-4	No data available	No data available	No data available
Trimethylolpropane triacrylate 15625-89-5	No data available	No data available	No data available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Amber Color
ODOR: ND
PHYSICAL STATE: Liquid
pH AS SUPPLIED: N/D
BOILING POINT: >100 C
MELTING POINT: N/D
FREEZING POINT: N/D
VAPOR PRESSURE (mmHg): N/D
VAPOR DENSITY (AIR = 1): N/D
SPECIFIC GRAVITY (H2O = 1): 1.1 @ 25°C
EVAPORATION RATE: Negligible
SOLUBILITY IN WATER: Negligible
PERCENT SOLIDS BY WEIGHT: 0%
PERCENT VOLATILE: N/D
VOLATILE ORGANIC COMPOUNDS (VOC): ND
MOLECULAR WEIGHT: ND
VISCOSITY: ND

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, peroxides, strong bases, reactive metals, carbon monoxide, oxides of carbon and other organic compounds,
HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: No data available on the product itself
 Oral-Components
 Trimethylolpropane triacrylate LC50(6hr) >0.55mg/l Rat – M/F
 Acute Dermal Toxicity: No data available on the product itself
 Dermal-Components
 Hexamethylene diacrylate LD50 Rabbit – 3650 mg/kg (OECD Test Guideline 402)
 Trimethylolpropane triacrylate LD50 5170 mg/l Rabbit
 Acute Inhalation Toxicity: No data available on the product itself
 Inhalation-Components
 Hexamethylene diacrylate LC0(7hr) 0.41 mg/l Rat – M/F
 Skin Corrosion/ Irritation: Irritating to skin
 Corrosion/Irritation Components
 Trimethylolpropane triacrylate Rabbit – Irritating to skin 24hr
 Hexamethylene diacrylate Irritating to skin
 Sensitization: May cause sensitization by inhalation and skin contact.
 Sensitization Componentes
 Trimethylolpropane triacrylate May cause sensitization by inhalation and skin contact.

CCS Epoxy Healer/Sealer, Part A
Safety Data Sheet



Hexamethylene diacrylate
Germ Cell Mutagenicity

May cause sensitization by inhalation and skin contact.
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:

Aquatic toxicity:

Toxicity to Fish-Components

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol 9003-36-5 LC50(96hr) 0.5mg/l Species: Oncorhynchus mykiss

Hexamethylene diacrylate static test LC50 - Leuciscus idus (Golden orfe) - 4.6 - 10 mg/l - 96 h (DIN 38412)

Toxicity to algae-Components

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol 9003-36-5 EC50(72hr) 1.8mg/l Species: elenastrum capricornutum

Hexamethylene diacrylate static test EC50 - Desmodemus subspicatus (Scenedesmus subspicatus) - 1.5 mg/l - 72 h

PERSISTENCE & DEGRADABILITY:

BIODEGRADABILITY:

Biodegradability-Components

Not readily biodegradable. 0% degradation after 28 days.

BIOACCUMULATIVE POTENTIAL:

BioAccumulative-Components:

High

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol: LogP_{ow} : 3.

MOBILITY IN SOIL:

NDA

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

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

HAZARD CLASS: NONE **ID NUMBER:** NONE **D.O.T SHIPPING LABEL:** NOT REGULATED BY D.O.T

WATER TRANSPORTATION

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:

AIR TRANSPORTATION

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:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): None. Included on Inventory

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

OSHA: 29 CFR 1910.1200 (Hazard Communication required)

WHMIS Class D-2B: Toxic material causing other toxic effects (Toxic).

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

302/304 No Ingredients Listed.

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: No ingredients listed.

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	2
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.