
SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CCS 217 Security Seal Part: B
SYNONYMS: 217B
PRODUCT CODES: 217B

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 Hardener, 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: Serious eye damage Cat. 1
SKIN: Skin Corrosion Cat. 1B
Skin Sensitization Cat.1
INGESTION: Not expected to be harmful under normal use
INHALATION: Slightly irritating to the respiratory system
CARCINOGEN: No Data

ENVIRONMENTAL HAZARDS:

Acute aquatic toxicity Cat.3
Chronic aquatic toxicity Cat.3

HAZARD STATEMENTS: H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage.

PRECAUTIONARY STATEMENTS:

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.
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.
P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 – IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing.
Rinse skin with water/shower.
P304+P340+P310 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable
For breathing. Immediately call a POISON CENTER or doctor/physician.
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.
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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #:	CAL-OSHA PEL TWA (8hours)	ACGIH TLV TWA (8 hours)	Other Limits RECOMMENDED	% BY WEIGHT
Tofa, reaction products with TEPA	68953-36-6	No Data	No Data		>60
Tetraethylenepentamine	112-57-2	No Data	No Data	TWA WEEL 1ppm(5mg/m3)	<15
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	No Data	No Data		<5
Bis(dimethylaminomethyl)phenol	71074-89-0	No Data	No Data		<1
Treated fumed silica	67762-90-7	No Data	No Data		<12

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: 284 °F / 140 °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 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)
Tofa, reaction products with TEPA 68953-36-6	No Data	No Data	No Data
Tetraethylenepentamine 112-57-2	No Data	No Data	No Data
Tris-2,4,6-(dimethylaminomethyl)phenol 90-72-2	No Data	No Data	No Data
Bis(dimethylaminomethyl)phenol 71074-89-0	No Data	No Data	No Data
Treated fumed silica 67762-90-7	No Data	No Data	No Data

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Black Paste

ODOR: Ammonia

PHYSICAL STATE: Paste

pH AS SUPPLIED: Basic

BOILING POINT: N/D

MELTING POINT: N/D

FREEZING POINT: N/D

VAPOR PRESSURE: <1mm @ 20C

VAPOR DENSITY (AIR = 1): Heavier than air

SPECIFIC GRAVITY (H2O = 1): 0.95

EVAPORATION RATE: N/D

SOLUBILITY IN WATER: Slight

PERCENT SOLIDS BY WEIGHT: N/D

PERCENT VOLATILE: N/D

VOLATILE ORGANIC COMPOUNDS (VOC): ND

MOLECULAR WEIGHT: ND

VISCOSITY: 8500 poise

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 o carbon and other organic compounds,

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity	CAS#	
Acute Oral Toxicity: Oral-Components		No data available on the product itself
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	LD50 2,169 mg/kg Species: Rat
Acute Dermal Toxicity: Dermal-Components		No data available on the product itself
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	LD50 >1ml/kg Species: Rat
Acute Inhalation Toxicity Inhalation-Components		No data available on the product itself
Skin Corrosion/ Irritation: Corrosion/Irritation Components		Skin corrosion
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	Corrosive
Eye Damage/Irritation: Damage/Irritation Components		Severe eye damage
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	Extremely irritating and possibly corrosive
Respiratory Damage/Irritation: Damage/Irritation Components		No data available on the product itself
Sensitization:		Moderate Dermal Sensitization.
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.
Classification		
ACGIH:		Not Classified
IARC:		Not Classified
NTP		Not Listed
OSHA		Not Classified

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	CAS#	
Aquatic toxicity: Toxicity to Fish-Components		LC50(24hr) 222 mg/l Species: Rainbow trout
Toxicity to algae-Components		
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	Harmful to algae
Toxicity-Aquatic Invertebrates		EC50(72hr) 84mg/l Species: Scenedesmus subspicatus
Toxicity to other organisms:		
PERSISTENCE & DEGRADABILITY:		
BIODEGRADABILITY: Biodegradability-Components		No data available on product itself
BIOACCUMULATIVE POTENTIAL: Bio Accumulative-Components:		No data available on product itself
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: Amines, liquid, corrosive, n.o.s. (Polyamidoamine, Tetrathylenepentamine mixture)
HAZARD CLASS: 8
ID NUMBER: UN2735
PACKING GROUP: III
LABEL STATEMENT: Corrosive, Hazard Class 8, Packing Group: PG III

WATER TRANSPORTATION

PROPER SHIPPING NAME: Amines, liquid, corrosive, n.o.s. (Polyamidoamine, Tetrathylenepentamine mixture), Marine Pollutant
HAZARD CLASS: 8
ID NUMBER: UN2735
PACKING GROUP: III
LABEL STATEMENT: Corrosive, Hazard Class 8, Packing Group: PG III

AIR TRANSPORTATION

PROPER SHIPPING NAME: Amines, liquid, corrosive, n.o.s. (Polyamidoamine, Tetrathylenepentamine mixture)
HAZARD CLASS: 8
ID NUMBER: UN2735
PACKING GROUP: III
LABEL STATEMENT: Corrosive, Hazard Class 8, Packing Group: PG III

SECTION 15: REGULATORY INFORMATION

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 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.