

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CCS General Purpose Coating **Part B**
SYNONYMS: 147B, 219B
PRODUCT CODES: 147B

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: **EYES:** YES **SKIN:** YES **INGESTION:** YES **INHALATION:** YES

SIGNAL WORD: DANGER!

PHYSICAL HAZARDS: Flammable Liquid Cat.1

HEALTH HAZARDS (ACUTE AND CHRONIC)

EYES: Serious Eye Damage Cat. 1.
SKIN: Skin Irritant Cat. 2
Skin Sensitization Cat. 1.
Skin Corrosion Cat. 1B
INGESTION: Acute Oral Toxicity Cat. 4
Reproductive Toxicity Cat. 1B.
Specific target organ toxicity- single exposure Cat.3
INHALATION: Reproductive Toxicity Cat. 1B.
Specific target organ toxicity- single exposure Cat.3

ENVIRONMENTAL HAZARDS:

Acute Aquatic Cat.2
Chronic Aquatic Cat.2
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
H360 - May damage fertility or the unborn child.
H411 - Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS:

P201 - Obtain special instructions before use
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash...thoroughly after handling with soap and water
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment
P280 - Wear Protective gloves/protective clothing/eye protection/face protection
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P303+P361+P353 - If ON SKIN(or hair):Remove/ take off immediately all contaminated clothing. Rinse skin with water/shower.

SDS147B

SDS DATE: 1-Jan-16

CCS General Purpose Coating, PART B
Safety Data Sheet



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 POSION 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.
P391 - Collect spillage.
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
4-tert-Butylphenol	98-54-4	No Data	No Data		<45%
2,2,4(2,4,4)-Trimethyl-1,6-hexanediamine	25620-58-0	No Data	No Data		<23%
m-Xylylenediamine	1477-55-0	No Data	No Data		<30%
Nonyl Phenol	84852-15-3	No Data	No Data		<0.6%
2-sec-Butylphenol	89-72-5	No Data	No Data		<16%
4-sec-Butylphenol	99-71-8	No Data	No Data		<0.4%

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: 210 °F / 99 °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 sunrays. 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)
4-tert-ButylAlcohol 98-54-4	No Data	No Data	No Data
2,2,4(2,4,4)-Trimethyl-1,6-hexanediamine 25620-58-0	No Data	No Data	No Data
m-Xylylenediamine 1477-55-0	No Data	No Data	C 0.1 mg/m3 [skin]
Nonyl Phenol 84852-15-3	No Data	No Data	No Data
2-sec-Butylphenol 89-72-5	No Data	5ppm	5ppm (30 mg/m3) TWA skin
4-sec-Butylphenol 99-71-8	No Data	No Data	No Data

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Amber liquid

ODOR: Mild/ Ammonia

PHYSICAL STATE: Paste

pH AS SUPPLIED: Basic

BOILING POINT: >150C

MELTING POINT: N/D

FREEZING POINT: N/D

VAPOR PRESSURE (mm Hg): <0.1 mm Hg 20C

VAPOR DENSITY (AIR = 1): Heavier than air

SPECIFIC GRAVITY (H2O = 1): >1.2

EVAPORATION RATE: Negligible

SOLUBILITY IN WATER: Slight

PERCENT SOLIDS BY WEIGHT: No Data

SDS147B

SDS DATE: 1-Jan-16

PERCENT VOLATILE: Negligible
VOLATILE ORGANIC COMPOUNDS (VOC): No Data
MOLECULAR WEIGHT: N/D
VISCOSITY: 14 p.

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

	CAS#	
Acute Oral Toxicity:		No data available on the product itself
Oral-Components		
4-tert-Butylphenol:	98-54-4	LD50 >2000mg/kg (OECD Test Guidelines401)
m-Xylylenediamine	1477-55-0	LD50 >200mg/kg Species Rat
4-sec-Butylphenol	99-71-8	LD50 Oral Rat: 2450mg/kg
2-sec-Butylphenol	89-72-5	LD50 Oral Rat: 200-2000 mg/kg
Nonyl Phenol	84852-15-3	LD50 Acute oral toxicity Cat.4 Species:Rat
Acute Dermal Toxicity:		No data available on the product itself
Dermal-Components		
2-sec-Butylphenol	89-72-5	LD50 Dermal Rabbit: 5560 mg/kg
Acute Inhalation Toxicity:		No data available on the product itself
m-Xylylenediamine	1477-55-0	LC50 1.34mg/l Species Rat
4-tert-Butylphenol	98-54-4	LCL0 5.6mg/l Species Rat OCED test guideline 403
Skin Corrosion/ Irritation:		Severe Skin Irritation/Corrosion
Corrosion/Irritation Components		
m-Xylylenediamine	1477-55-0	Corrosive (skin)
Nonyl Phenol	84852-15-3	Corrosive
Eye Damage/Irritation:		Severe eye damage/irritation
Damage/Irritaion Components		
Nonyl Phenol	84852-15-3	Corrosive risk of serious eye damage.
4-tert-Butylphenol	98-54-4	Cat. 1 irreversible effects on the eye
Respiratory Damage/Irritation:		Severe respiratory damage/irritation.
Damage/irritation Components		
Sensitization:		May cause sensitization by inhalation and skin contact.
Sensitization Componenets		
m-Xylylenediamine	1477-55-0	Sensitizer (skin)
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 contatins 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:		Exposure at low concentrations my kill fish
Toxicity to Fish-Components		
m-Xylylenediamine	1477-55-0	LC50(96hr): 87.6mg/L Species: Killfish
4-tert-Butylphenol	98-54-4	LC50(96hr): 5.14mg/l Species: Fathead Minnow
4-sec-Butylphenol	99-71-8	LC50(96hr): 0.74mg/l Species: Atlantic Salmon (Salmo salar)
2-sec-Butylphenol	89-72-5	LC50(96hr) 1 mg/l Species: Rainbow trout
Nonyl phenol	84852-15-3	LC50(96hr) 0.08 mg/l Species: Hybopsis monachaerly
Toxicity to algae-Components		
m-Xylylenediamine	1477-55-0	EC50(72hr): 20.3mg/l Species: Algae (Pseudokirchnerella subcapitata)
4-tert-Butylphenol	98-54-4	IC50(72hr): 11.2mg/l Species: Algae (Desmodesmus subspicatus)
Nonyl phenol	84852-15-3	EbC10(72hr): 0.5 mg/l Species: Scenedesmus subspicatus
2-sec-Butylphenol	89-72-5	EC50(72hr): 10 mg/l Species: Algae
Toxicity-AquaticInvertabrates		
m-Xylylenediamine	1477-55-0	EC50(48hr): 15.2mg/l Species Daphnia magna
4-tert-Butylphenol	98-54-4	EC50(48hr) 4.8mg/l Species: Daphnia magna (OECD Test Guideline 202)
Nonyl phenol	84852-15-3	EC50(24hr): 0.140 mg/l Species: Daphnia
2-sec-Butylphenol	89-72-5	EC50(48hr): 3.7 mg/l Species:Daphnia
Toxicity to other organisms:		EC50(30min): 156mg/l Bacteria: Pseudomonas putida
PERSISTENCE & DEGRADABILITY:		
BIODEGRADABILITY:		
Biodegradability-Components		
4-tert-Butylphenol	98-54-4	60% Biodegradable: aerobic-exposure time 28d (OECD Test Guidline 301F)
m-Xylylenediamine	1477-55-0	49% Not readily biodegradable : 28d
BIOACCUMULATIVE POTENTIAL:		
BioAccumulaive-Components:		
4-tert-Butylphenol	98-54-4	BCF 120 (3d): 46ug/L Species: Leuciscus idus melanotus BCF 20.43(8w): 40mg/L Species Cyprinus carpio
m-Xylylenediamine	1477-55-0	Low potential for bioaccumulation
4-sec-Butylphenol	99-71-8	BCF 28 (96hr) : 560mg/l Species: Atlantic salmon (Salmo salar)
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 (DOT)

PROPER SHIPPING NAME: Amines, liquid, corrosive, n.o.s. (Benzene-1,3-dimethaneamine mixture)
HAZARD CLASS: 8
ID NUMBER: UN2735
PACKING GROUP: II
LABEL STATEMENT: Corrosive, Hazard Class 8, Paging Group: PG II

WATER TRANSPORTATION (IMDG)

PROPER SHIPPING NAME: Amines, liquid, corrosive, n.o.s. (Benzene-1,3-dimethaneamine mixture), Marine Pollutant
HAZARD CLASS: 8
ID NUMBER: UN2735
PACKING GROUP: II
LABEL STATEMENT: Corrosive, Hazard Class 8, Paging Group: PG II

AIR TRANSPORTATION (IATA / ICAO)

PROPER SHIPPING NAME: Amines, liquid, corrosive, n.o.s. (Benzene-1,3-dimethaneamine mixture) , Marine Pullutant
HAZARD CLASS: 8
ID NUMBER: UN2735
PACKING GROUP: II
LABEL STATEMENT: Corrosive, Hazard Class 8, Paging Group: PG II

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 Materila 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)

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.

SDS147B

SDS DATE: 1-Jan-16