

## CoverSeal™-PLUS

### 1. Identification

**Product Name:** CoverSeal™-PLUS

**Item #:** CS001, CS004, CS120, CS012

**Synonyms:** N/A

**Recommended Use:** Mounting Media

**Restrictions on Use:** Only as Directed

**Manufacturer:**

**In Case of Emergency:**

Cancer Diagnostics, Inc.  
4300 Emperor Blvd. #400  
Durham, NC 27703  
1-877-846-5393

Chemtrec US 1-800-424-9300

### 2. Hazards Identification

**OSHA Hazard Classification(s):**

Flammable Liquid - Category 2  
Skin Irritation - Category 2  
Specific Target Organ Toxicity (single exposure) - Category 3  
Specific Target Organ Toxicity (repeated exposure) - Category 2  
Carcinogenicity - Category 2  
Reproductive Toxicity - Category 1A

**Signal Word:** Danger

**Hazard Statement(s):** Highly flammable liquid and vapor. Causes skin irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility of the unborn child. May cause damage to organs through prolonged or repeated exposure.

**Pictogram(s):**



**Precautionary Statement(s):**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF ON SKIN: Wash with plenty of water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER/doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell. Specific treatment (see first aid section on this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate method to extinguish.

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Descriptions of Hazards not otherwise classified:** N/A

**Percent of mixture with unknown acute toxicity:** N/A

## CoverSeal™-PLUS

### 3. Composition and Information on Ingredients

Chemical Name	Common Name	CAS #	Concentration %
Toluene		108-88-3	50-75
Acryloid b66-51		Mixture	25-50
Butylated hydroxytoluene		128-37-0	1.0-2.5

### 4. First Aid Measures

**Eye Contact:** Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly. Remove contact lenses if worn.

**Skin Contact:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.

**Inhalation:** Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

**Ingestion:** Small amounts which accidentally enter mouth should be rinsed out until taste of it is gone. Do not induce vomiting. Do not give liquids. Obtain emergency medical attention.

### 5. Fire- Fighting Measures

**Unusual Fire and Explosion Hazards:** Highly flammable liquid and vapor. Vapors/dust may form explosive mixture with air. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

**Special Firefighting Procedures:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Do not use water jet (frothing possible). Use water with caution. Material will float and may ignite on surface of water. Water may be ineffective in fighting the fire. Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

**Extinguishing Media:** Carbon Dioxide, Dry Chemical, Foam, Water Fog

### 6. Accidental Release Measures

**Steps to be Taken in Case Material is Release or Spilled:** Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Evacuate unnecessary personnel. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Use water mist or spray to disperse vapors. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Remove from surface by skimming or with suitable absorbents. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

### 7. Handling and Storage



**Handling:** Use only in a well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. Material accumulates static charge (ignition source). When transferring, follow proper grounding procedures. Use spark-resistant tools. Do not load into compartments adjacent to heated cargo. Use explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.

**Storage:** Keep away from heat, sparks, and flame. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight. Material is a static accumulator which has the potential of forming ignitable vapor-air mixtures in storage tanks.

**CoverSeal™-PLUS**
**8. Exposure Controls/Personal Protection**
**OSHA Permissible Exposure Limits (PELs):**

Reagent	CAS #	OSHA PEL TWA	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL CEILING
Toluene	108-88-3	200 ppm	20 ppm	Not Determined	300 ppm
Acryloid b66-51	Mixture	100ppm	50 ppm	N/A	N/A
Butylated Hydroxytoluene	128-37-0	Not Determined	10 mg/m <sup>3</sup>	Not Determined	Not Determined

**Personal Protection**


**RESPIRATORY PROTECTION:** Wear a MSHA/NIOSH approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.



**SKIN PROTECTION:** Wear impervious gloves to prevent contact with the skin. Wear protective gear as needed - apron, suit, boots.



**EYE PROTECTION:** Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).



**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.



**HYGENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

**9. Physical and Chemical Properties Section**

**Appearance:** Liquid

**Molecular Weight:** N/A

**Molecular Formula:** N/A

**pH:** N/A

**Boiling Point and Boiling Range:** 228 – 656°F

**Melting Point/Freezing Point:** N/A

**Flash Point:** 40°F

**Density, g/cm<sup>3</sup>:** 0.967

**Odor:** Typical

**Odor Threshold:** N/A

**Color:** Clear

**Flammability (solid/gas):** Emits flammable vapors, flammable liquid

**Vapor Density:** N/A

**Upper/Lower flammability or explosive limits:** N/A

**Vapor Pressure:** N/A

**Evaporation Rate:** N/A

**Partition Coefficient: n-octanol/water:** N/A

**Viscosity:** N/A

**Auto-ignition temperature:** N/A

**Solubility:** Negligible

**Decomposition Temperature:** N/A

**CoverSeal™-PLUS**
**10. Stability and Reactivity**

**Reactivity:** No Information.

**Chemical Stability:** No Information.

**Conditions of Stability/Instability:** N/A

**Stabilizers needed:** None

**Safety issue indicated by appearance change:** N/A

**Other:** N/A

**Hazardous Reactions:** N/A

**Hazardous Polymerization:** N/A

**Conditions to avoid:** Avoid impact, friction, heat, sparks, flame and source of ignition. Do not store near reactive materials.

**Classes of Incompatible Materials:** Keep separate from alkalis. Prevent contact with halogens. Avoid contact with metals. Prevent contact with strong oxidizing agents. Keep away from acids. Avoid contact with bases.

**Hazardous Decomposition Products:** Toxic gases/fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed.

**11. Toxicological Information**

**Information on Toxicological Effects**
**Effects of Overexposure:**

**Inhalation:** May be harmful if inhaled. Inhalation of high solvent vapor or mist concentrations can cause coma and death. Breathing in the material may irritate the mucous membranes of the nose, throat bronchi and lungs. Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression). Overexposure to vapors may produce central nervous system depression, causing narcosis.

**Skin Contact:** Causes skin irritation. Prolonged or repeated exposure may cause severe skin irritation, even a burn. Harmful if absorbed through skin. Can be absorbed through skin and produce central nervous system effects. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existing skin disorders should avoid contact with this product.

**Eye Contact:** Causes eye irritation. Direct contact can cause corneal clouding.

**Ingestion:** Harmful if swallowed. Harmful or fatal if liquid is aspirated into lungs. Cause (target organ or system) damage. (e.g., lung, nervous system, blood disorders, liver, kidney, immune system, cardiovascular system, thyroid, testicular, ovarian, etc.). Ingestion may cause gastrointestinal tract irritation. Can be readily absorbed by the stomach and intestinal tract. Symptoms include burning sensation of the mouth and esophagus, nausea, vomiting, diarrhea, dizziness, staggering gait, drowsiness, loss of consciousness and delirium as well as additional central nervous system effects.

**Chronic Hazards:** Suspect cancer hazard. Possible brain damage from overexposure. May cause delayed lung damage. Possible reproductive hazard. Overexposure may cause kidney damage. A component of this product is a potential hazard to the fetus. May cause liver disorder (e.g., edema, proteinuria) and damage. May cause cardiovascular disorder and damage. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, skin, and/or eyes. Significant exposure to this chemical may adversely affect people with chronic disease of the central nervous system.

**Primary Route(s) of Entry:** Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

**Acute Toxicity Values**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

Reagent	CAS #	Oral LD50, mg/kg	Dermal LD50, mg/kg	Vapor LC50, mg/L
Toluene	108-88-3	>7,000	>12,000	>30.0
Acryloid b66-51	Mixture	>2,000	>3,000	>15.07
Butylated Hydroxytoluene	128-37-0	>2000.0	>2000.0	Not Determined

## CoverSeal™-PLUS

### 12. Ecological Information

**Ecotoxicity:** N/A

**Persistence and degradability:** N/A

**Bioaccumulation Potential (octanol-water partition coefficient, BCF):** N/A

**Mobility in the soil:** N/A

**Adverse Environmental Effects:** N/A

### 13. Disposal Considerations

**Recommended Disposal Containers:** Check with your local waste authorities\*

**Recommended Disposal Methods:** Do not dispose of in drains, check with your local waste authorities.\*

**Physical/Chemical Properties affecting Disposal:** See section 2 and section 9 applicable information.\*

**Special Precautions for Landfill and Incineration Activities:** Check with your local waste authorities.\*

**Waste Stream:** Consult your local or regional authorities.\*

**Steps to be Taken in Case Material is Released or Spilled:** Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Evacuate unnecessary personnel. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Use water mist or spray to disperse vapors. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Remove from surface by skimming or with suitable absorbents. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

### 14. Transport Information

**UN Number:** UN1866

**UN Proper Shipping Name:** Resin Solution

**Transport Hazard Class(es):** 3

**Packing Group Number:** II

**Environmental Hazards (IMDG code):**

**Marine Pollutant:** No

**Transport in Bulk (IBC Code):** N/A

**Special Transport Precautions:** N/A

### 15. Regulatory Information

#### U.S. Federal Regulations:

**CERCLA - SARA Hazard Category:** This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**SARA SECTION 313:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Reagent	CAS #
Toluene	108-88-3
Ethylbenzene	100-41-4
Benzene	71-43-2

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**TOXIC SUBSTANCES CONTROL ACT:** This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Reagent	CAS #
Acryloid b66-51	Mixture

**U.S. State Regulations:**

**NEW JERSEY RIGHT-TO-KNOW:** The following materials are non-hazardous, but are among the top five components in this product.

Reagent	CAS #
Dipropylene glycol dibenzoate	27138-31-4

**PENNSYLVANIA RIGHT-TO-KNOW:** The following non-hazardous ingredients are present in the product are at or greater than 3%.

Reagent	CAS #
Dipropylene glycol dibenzoate	27138-31-4

**CALIFORNIA PROPOSITION 65 CARCINOGENS:** Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Reagent	CAS #
Ethylbenzene	100-41-4
Benzene	71-43-2

**CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS:** Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Reagent	CAS #
Toluene	108-88-3
Benzene	71-43-2

**International Regulations:**

**CANADIAN WHMIS:** This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class: No Information

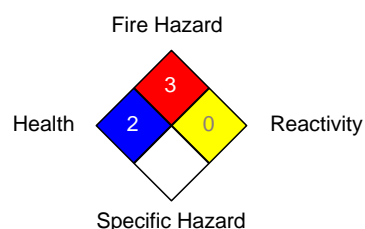
**CoverSeal™-PLUS**
**16. Other Information**
**Revision Date:** 10/28/2015

**Volatile Organic Compounds, gr/ltr:** 542

**NFPA**

Health	2
Fire Hazard	3
Reactivity	0
Specific Hazard	

National Fire Protection Association (USA) NFPA


**HMIS**

Health	2
Flammability	3
Physical Hazard	0
Personal Protection	

Hazardous Material Information System HMIS

Health	2
Flammability	3
Physical Hazard	0
Personal Protection	

**Alphanumeric H-Statements and P-Statements.**

H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

**Disclaimer:** The Volatile Organic Compound (VOC) content reported herein, if any, is based on a material VOC calculation. Note that several methods are used for calculating VOC content and that standards or requirements regarding VOC content vary by location and jurisdiction. Accordingly, Cancer Diagnostics, Inc. makes no representations or warranties, expressed or implied, regarding the material's compliance with VOC standards or requirements applicable in locations and jurisdictions where this material may be sold or used.

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