

**SECTION 1: Identification****1.1. Identification**

Product form : Mixtures  
Product name : Electroless Copper Part D  
Product code : PRINSTA-P10006

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture: For laboratory and manufacturing use only.

Restrictions on use: Not for food, drug or household use

**1.3. Details of the supplier of the safety data sheet**

Prinsta Inc  
19 Morris Ave – NewLab BLDG 128  
Brooklyn, NY 11205  
USA T 917-719-0102

**1.4. Emergency telephone number**

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

**Article 1. SECTION 2: Hazard(s) identification****2.1. Classification of the substance or mixture****GHS-US****classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute oral toxicity	Category 4
Acute inhalation toxicity – vapors	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/ eye irritation	Category 2
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1A

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Specific target organ toxicity (single exposure)	Category 1
Target organs – respiratory system, central nervous system, optic nerve	
Specific target organ toxicity – (repeated exposure)	Category 1
Target organs – kidney, liver, heart, spleen, blood.	

## 2.2. Label elements

<b>Signal Word</b>	<b>Danger</b>
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<b>Hazard statements</b>
Harmful if swallowed
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Toxic if inhaled
May cause reparatory irritation
May cause drowsiness or dizziness
Suspected of causing genetic defects
May cause cancer
Causes damage to organs
Causes damage to organs through prolonged or repeated exposure



<b>Precautionary Statements</b>
<b>Prevention</b>
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
User personal protective equipment as require
Wash face, hands, and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Contaminated work clothing shouldn't not be allowed out of the workplace
Wear protective gloves

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<b>Response</b>
Immediately call a PISON CENTER or doctor/ physician
<b>Inhalation</b>
IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
<b>Skin</b>
Wash contaminated clothing before reuse
IF ON SKIN( or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation or rash occurs: Get medical advice/attention
<b>Eyes</b>
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so, Continue rinsing.
<b>Ingestion</b>
Rinse mouth
Do NOT induce vomiting
<b>Storage</b>
Store locked up
Store in a well-ventilated place. Keep container tightly closed
<b>Disposal</b>
Dispose of contents/container to an approved waster disposal plant

### 2.3. Other hazards

Poison, may be fatal or cause blindness if swallowed. Vapor harmful. Cannot be made non-poisonous.

WARNING. Reproductive Harm – <https://www.p65warnings.ca.gov/>

## Article II. SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
Water	(CAS No) 7732-18-5	84.3-94.2
Formaldehyde	(CAS No) 50-00-0	3.7-10
Methyl alcohol	67-56-1	1.3-4.3

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Full text of hazard classes and H-statements : see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). May be mildly irritation to eyes, throat and skin if directly exposed.
- First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest. If not breathing, give artificial respiration.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Do NOT induce vomiting. Obtain emergency medical attention if symptoms occur.

#### 4.2. Most important symptoms and effects, both acute and delayed

Breathing difficulties. Causes burns by all exposure routes. May cause allergic skin reaction. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: ingestion causes severe swelling, sever damage to the delicate tissue and danger of perforation: symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable Extinguishing:** Cool closed containers exposed to fire with water spray.

**Unsuitable Extinguishing:** No information available

#### 5.2. Special hazards arising from the substance or mixture

**Reactivity:** None.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

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### 6.1.1. For non-emergency personnel

Protective equipment	: Safety glasses, rubber gloves and rubber apron.
Emergency procedures	: Evacuate unnecessary personnel. Use caution during clean-up; avoid stepping into spilled solid or clean-up procedures that generate substantial amounts of dust.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Transfer to a chemical waste container for disposal in accordance with local regulations.
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## Article III. SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Provide good ventilation in process area to prevent formation of vapor. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately. Keep out of reach of children.
Hygiene measures	: Do not eat, drink, smoke, or apply cosmetics when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container closed when not in use. Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Empty containers may contain residual material; therefore, empty containers should be handled with care. Material should be stored in secondary containers, or in a diked area, as appropriate. Storage and use areas should be covered with impervious materials. Inspect all.
Incompatible products	: Metals. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Prohibitions on mixed storage	:KEEP SUBSTANCE AWAY FROM: Strong acids. Metals. Metal powders.
Storage area	:Keep locked up. Store in a well-ventilated place. Keep only in the original container.
Special rules on packaging	:SPECIAL REQUIREMENTS: Corrosion-proof.
Packaging materials	:Do not store in corrodible metal.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Sodium Hydroxide (1310-73-2)		
ACGI	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
IDLH	US IDLH (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

Water (7732-18-5)
Not applicable

#### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Safety showers, eye wash station, and hand-washing equipment should be available.

#### 8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Safety glasses.



Skin protection	: Wear protective gloves such as neoprene or nitrile based gloves. Use triple gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this SDS.
Eye/Face protection	: Chemical goggles or safety glasses.
Respiratory protection	: None needed under normal conditions of use. Use NIOSH approved respirators if ventilation is inadequate to control sprays or mists. For situations in which significant amounts of sprays or mists could be generated, wear an air-purifying respirator with a high-efficiency particulate filter.
Body protection	: Use a body protection appropriate to task( e.g., lab coat, coveralls, or apron). Care should be taken to select protection for potentially exposed areas when prolonged exposure could occur in occupational settings.

### Article IV. SECTION 9: Physical and chemical properties

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### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1 g/ml
Specific gravity / density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

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Explosion limits : No data available

Explosive properties : Not applicable.

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not reactive under typical conditions of use or handling.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Incompatible materials.	
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### 10.5. Incompatible materials

Metals. Strong acids.

### 10.6. Hazardous Decomposition or Byproducts

Sodium Oxides.

## Article V. SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure	: Skin and eye contact
Acute toxicity	: Not classified

#### Formaldehyde (50-00-0)

LD50 Dermal rabbit: 270 mg/kg

#### Methyl Alcohol (67-56-1)



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Oral ATE US: 60 mg/kg

Oral Rat LD50: 1187 mg/kg

Mutagenic Effects	:Mutagenic effects have occurred in humans.
Reproductive Effects	:Experiments have shown reproductive toxicity effects on lab animals.
Developmental Effects	:Developmental effects have occurred in experimental animals.
Teratogenicity	:Teratogenic effects have occurred in experimental animals.
STOT – single exposure	: Optic nerve, Respiratory system, Central nervous system (CNS)
STOT – repeated exposure	:Kidney, Liver, Spleen, Blood
Aspiration hazard	: Not classified
Symptoms / effects, acute and delayed	:Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation for stomach or esophagus should be investigate. Ingestion causes sever swelling, severe damage to the delicate tissue and danger of perforation.
Endocrine Disruptor Information	: Not classified
Other Adverse Effects	:Tumorigenic effects have been reported in experimental animals.

### Article VI. SECTION 12: Ecological information

#### 12.1. Toxicity

Avoid release into the environment.

<b>Formaldehyde (50-00-0)</b>	
LC50 Leuciscus Idus	: 15 mg/l
EC50 Leuciscus Idus	: N/A

<b>Methyl Alcohol (67-56-1)</b>	
LC50 Pimephales Pro.	: >10000 mg/l
EC50 Pimephales Pro.	: 39000 mg/l

### SECTION 13: Disposal considerations

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### 13.1. Waste treatment methods

Waste disposal recommendations : Consult appropriate federal and local regulations for disposal. Empty containers are subject to the same regulations.

### SECTION 14: Transport information

#### 14.1. Land Transport (US DOT)

In accordance with DOT

Not regulated

### Article VII. SECTION 15: Regulatory information

#### 15.1. US Federal regulations: Safety, health and environmental regulations specific for this product in question

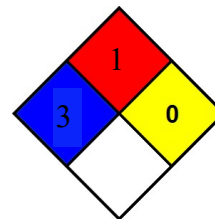
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

### Article VIII. SECTION 16: Other information

Revision date : N/A

Other information : None.

NFPA health hazard : 3.  
NFPA fire hazard : 1.  
NFPA reactivity : 0.



HMIS III Rating  
Health : 3  
Flammability : 1  
Physical : 0

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Personal protection : B

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