

SECTION 1: Identification**1.1. Identification**

Product form : Mixtures
Product name : Electroless Copper Part C
Product code : PRINSTA-P10005

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

Not classified.

2.2. Label elements

H314	:Causes severe skin burns and eye damage
H318	:Causes serious eye damage
H402	:Harmful to aquatic life

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2.3. Other hazards

Other hazards not contributing to the classification: None.

2.4. Unknown acute toxicity (GHS US)

Not applicable

Article II. SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	90-98	Not classified
Sodium Hydroxide	(CAS No) 1310-73-2	2-10	Skin Corr. 1A:H314 Eye Dam. 1: H318 Aquatic Acute 3: H402

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 : Rinse mouth. Drink 1 or 2 glasses of water. Do NOT induce vomiting. Obtain emergency medical attention if symptoms occur.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable Extinguishing: A solid water stream may be inefficient.

5.2. Special hazards arising from the substance or mixture

Reactivity:	None.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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.

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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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium Hydroxide (1310-73-2)

ACGI	ACGIH Ceiling (mg/m ³)	2 mg/m ³
OSHA	OSHA PEL (TWA) (mg/m ³)	2 mg/m ³
IDLH	US IDLH (mg/m ³)	10 mg/m ³
NIOSH	NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³

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.
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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

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

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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
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

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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

Sodium Hydroxide (1310-73-2)

LD50 Dermal rabbit: 337500 mg/kg

ATE US (dermal): 337500 mg/kg

Water (7732-18-5)

Oral ATE US: 90000 mg/kg

Oral Rat LD50: > 90000 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

Article VI. SECTION 12: Ecological information

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12.1. Toxicity

Avoid release into the environment.

Sodium Hydroxide (1310-73-2)	
LC50 fish 1	: 45.4 mg/l
EC50 Daphnia 1	: 40.4 mg/l

SECTION 13: Disposal considerations

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

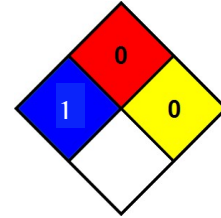
Other information : None.

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



HMIS III Rating

Health : 1
Flammability : 0
Physical : 0
Personal protection : B

SDS US prinsta

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