

81933-9558

**SAFETY DATA SHEET (SDS)**

Prepared in accordance with U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System (GHS), Revision 9

Revision Date: 11 July 2025

## 1. IDENTIFICATION

**Product Identifier:** Copper Rinse (SKU 525-41)

**Recommended Use:** Corrosion-inhibiting rinse for freshly patinated or polished copper and brass surfaces. For professional/artistic use only.

**Manufacturer/Supplier:** Natural Pigments, LLC | 291 Shell Lane, Willits, CA 95490 USA | +1-707-459-9998 (business)

**Emergency Telephone (24 h):** +1-800-424-9300 (CHEMTREC US) | +1-703-527-3887 (International)

## 2. HAZARD(S) IDENTIFICATION

**GHS Classification of the mixture:**

- **Flammable Liquid, Category 2 (H225)**
- **Eye Irritation, Category 2A (H319)**
- **Specific Target Organ Toxicity – Single Exposure, Category 3 (narcotic effects) (H336)**
- **Hazardous to the Aquatic Environment – Chronic, Category 2 (H411)**

**Label Elements (GHS):**

**Pictograms:**



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<b>Signal Word:</b>	<i>Danger</i>
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<b>Hazard Statements:</b>	H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long-lasting effects.
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<b>Precautionary Statements:</b>	<b>Prevention:</b> P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice. P391 Collect spillage.
	<b>Response:</b> P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice. P391 Collect spillage. P370+P378 In case of fire: Use CO <sub>2</sub> , dry chemical, alcohol-resistant foam, or water fog.
	<b>Storage:</b> P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
	<b>Disposal:</b> P501 Dispose of contents/container in accordance with local regulations.

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**Other Hazards:** Vapors may form explosive mixtures with air. Prolonged or repeated skin contact may cause drying or defatting. Spilled material can create slip hazard.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	GHS Classification
Isopropyl alcohol (IPA)	67-63-0	90-100	Flam. Liq. 2 (H225); Eye Irrit. 2A (H319); STOT SE 3 (H336)
1,2,3-Benzotriazole (BTA)	95-14-7	1-10	Aquatic Acute 1 (H400); Aquatic Chronic 1 (H410); Acute Tox. 4 (H302); Eye Irrit. 2 (H319)

### 4. FIRST-AID MEASURES

- **Inhalation:** Move person to fresh air. Keep at rest in a position comfortable for breathing. If symptoms (drowsiness, dizziness) persist, call a physician.
- **Skin Contact:** Remove contaminated clothing. Rinse skin with plenty of water. If irritation develops, seek medical advice.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.
- **Ingestion:** Rinse mouth. Do *not* induce vomiting. Call a poison center/physician immediately.

**Most Important Symptoms/Effects:** Eye irritation, central nervous system depression (headache, dizziness), respiratory irritation.

### 5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Alcohol-resistant foam, CO<sub>2</sub>, dry chemical, water spray.
- **Unsuitable Media:** Straight water jet may spread burning liquid.

- **Specific Hazards:** Vapors heavier than air can travel to ignition sources and flash back. Containers may rupture under fire conditions. Thermal decomposition may release carbon monoxide, carbon dioxide, nitrogen oxides.
- **Protective Equipment for Firefighters:** Self-contained breathing apparatus and full protective gear.

**Flash Point (closed cup):** 12 °C (54 °F)

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## 6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Remove ignition sources. Ventilate area. Wear appropriate PPE.
  - **Containment/Clean-up:** Contain spill. Absorb with inert material (sand, vermiculite). Transfer to approved, grounded containers for disposal. Wash spill area with water and detergent. Prevent entry into waterways. Report large releases per local regulations.
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## 7. HANDLING AND STORAGE

- Handle only in well-ventilated areas away from sparks, flames, static, and hot surfaces.
  - Use non-sparking tools; ground/bond containers during transfer.
  - Keep container tightly closed when not in use. Store in flammable-liquid storage area at 5 – 30 °C.
  - Keep out of reach of children. Store separate from oxidizers, acids, and bases.
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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational Exposure Limits

Substance	Limit	Agency
Isopropyl alcohol	400 ppm TWA; 500 ppm STEL	OSHA PEL
Isopropyl alcohol	200 ppm TWA; 400 ppm STEL	ACGIH TLV
Benzotriazole	None established	—

**Engineering Controls:** Provide explosion-proof local exhaust or general dilution ventilation to keep vapor below 100 ppm.

### Personal Protective Equipment:

- **Eye/Face:** Safety goggles or face shield.
- **Skin:** Nitrile or butyl-rubber gloves; flame-resistant clothing for large-scale handling.
- **Respiratory:** NIOSH-approved organic-vapor respirator if ventilation is inadequate or if airborne concentrations exceed TLV.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear, colorless liquid
Odor	Alcoholic, faint aromatic
Odor Threshold	22 ppm (IPA)
pH	Not applicable
Melting/Freezing Point	≈ -90 °C
Initial Boiling Point	82 °C

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Flash Point (CC)	12 °C
Evaporation Rate	1.4 (n-butyl acetate = 1)
Flammability	Highly flammable liquid, Cat 2
Vapor Pressure	45 mm Hg @ 20 °C
Vapor Density	2 (Air = 1)
Relative Density	0.79 (g/cm <sup>3</sup> @ 20 °C)
Solubility (water)	Miscible
Partition Coefficient (log K <sub>ow</sub> )	0.05 (IPA); 1.44 (BTA)
Auto-ignition Temperature	399 °C
Viscosity	2.4 cP @ 20 °C

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## 10. STABILITY AND REACTIVITY

- **Reactivity:** Highly flammable; vapors can form explosive mixtures.
  - **Chemical Stability:** Stable under recommended storage conditions.
  - **Hazardous Reactions:** None expected under normal use.
  - **Conditions to Avoid:** Heat, sparks, flames, static discharge.
  - **Incompatible Materials:** Strong oxidizing agents, acids, alkalis.
  - **Hazardous Decomposition Products:** CO, CO<sub>2</sub>, nitrogen oxides.
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## 11. TOXICOLOGICAL INFORMATION

Endpoint	Isopropyl Alcohol	Benzotriazole
Acute Oral LD <sub>50</sub> (rat)	4 700 mg/kg	560 mg/kg
Acute Dermal LD <sub>50</sub> (rabbit)	12 800 mg/kg	> 2 000 mg/kg
Acute Inhalation LC <sub>50</sub> (rat, 4 h)	72.6 mg/L	No data
Skin/Eye Irritation	Eye Irrit 2A	Eye Irrit 2
Sensitization	Not sensitizer	Not sensitizer
STOT SE	Narcotic effects	None known
Carcinogenicity	Not listed by IARC, NTP, OSHA	Not listed

## 12. ECOLOGICAL INFORMATION

- **Isopropyl Alcohol:** Readily biodegradable; LC<sub>50</sub> (fish, 96 h)  $\approx$  9 000 mg/L.
- **Benzotriazole:** Toxic to aquatic life; LC<sub>50</sub> (fish, 96 h) = 40 mg/L; not readily biodegradable; potential for bioaccumulation.

Mixture classified Aquatic Chronic 2. Prevent release to waterways.

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents and container in accordance with federal, state, and local regulations. Incineration in approved facility is preferred. Empty containers retain flammable residues—do not cut or weld.

## 14. TRANSPORT INFORMATION

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<b>UN Number:</b>	UN 1219
<b>Proper Shipping Name:</b>	Isopropanol solution
<b>Transport Hazard Class:</b>	3
<b>Packing Group:</b>	II
<b>Marine Pollutant (IMDG):</b>	Yes (contains benzotriazole)
<b>ERG Guide:</b>	129

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## 15. REGULATORY INFORMATION

- **TSCA:** All components listed or exempt.
  - **SARA 311/312:** Fire hazard; acute health hazard.
  - **SARA 313:** Isopropyl alcohol (chemical category); benzotriazole (reportable < de minimis).
  - **CERCLA:** Not reportable.
  - **Proposition 65:** No listed substances present.
  - **WHMIS 2023 (Canada):** Flammable liquids Cat 2; Eye irritant Cat 2A; STOT SE Cat 3; Aquatic Chronic 2.
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## 16. OTHER INFORMATION

SDS prepared from supplier data and literature for isopropyl alcohol and 1,2,3-benzotriazole. Information is believed accurate as of the revision date but no warranty is expressed or implied. Users are responsible for safe handling and compliance with applicable regulations.

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### Revision History

- 14 Jul 2025 – Initial issue.