

Rust Patina

RIO GRANDE ABQ.

TEL: 505-344-0828

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LINDA

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ART DEPARTMENT

Material Safety Data Sheet

Material/Trade Name: Advance Liquid Copper

Stock Number(s): 335-171

MSDS Code: RIO-473

SECTION I PRODUCT/SUPPLIER INFORMATION

Material/Trade Name: Advance Liquid Copper  
Synonyms: Aqueous Salt Solution  
Stock Numbers: 335-171

Emergency Telephone No.: (800) 255-3924  
Nonemergency Safety/Technical Information Telephone No.: (505) 821-7620  
Supercedes our version dated: Original  
Based on Manufacturer's MSDS: 03/17/95  
DATE PREPARED: 03/23/95

SECTION II INGREDIENT/EXPOSURE LIMIT INFORMATION

Component (synonym)	%	CAS No.	TLV	PEL	REL
Copper		7440-50-8	0.2 mg/m <sup>3</sup> (f) 1 mg/m <sup>3</sup> (dm)	0.1 mg/m <sup>3</sup> (f) 1 mg/m <sup>3</sup> (dm)	0.1mg/m <sup>3</sup> (f,hr)
Ammonia	<1	7664-41-7	25 ppm 35 ppm (a)	50 ppm	1 mg/m <sup>3</sup> (dm) 25 ppm 35 ppm (a)
Propylene Glycol	<4	57-55-6	N.E.	N.E.	N.E.

f = as fume, dm = dusts and mists, hr = 10h TWA, a = Short Term Exposure Limit, N.E. = None Established (Exposure Limit)

SECTION III PHYSICAL PROPERTIES

Vapor Pressure (mm Hg):	Not Available	Specific Gravity:	1.10
Vapor Density (Air = 1):	Not Available	Boiling Point:	212°F (100°C)
Solubility in Water:	Soluble	Evaporation Rate:	> Ether
Appearance:	Copper colored liquid	Volatility (%):	>95
Odor:	Not Available	pH:	Not Available
Melting Point:	Not Available		

SECTION IV FIRE AND EXPLOSION DATA

Flash Point: None Known  
Auto Ignition Temperature: Not Available  
Flammable Limits: LEL: Unknown  
UEL: Unknown

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical

Special Fire Fighting Procedures: Fire fighters should wear full turnout gear and pressure-demand self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: None Known

SECTION V REACTIVITY DATA

Stable? Yes      Conditions to Avoid: Elevated temperatures, freezing temperatures

Incompatibility (Materials to Avoid): Strong alkalis, acids

Hazardous Decomposition Products: Ammonia vapors

Hazardous polymerization may occur? No      Conditions to Avoid: None Known

SECTION VI HEALTH HAZARD DATA

Primary Routes of Exposure: Inhalation, skin and eye contact

Acute Signs and Symptoms of Overexposure: May cause minor eye and skin irritation. May dry out skin. Inhalation of fumes may cause respiratory irritation, headache, nausea, vomiting, diarrhea, chills, fever, aching muscles.



4516 Ancehlm Ave. NE  
Albuquerque, NM 87113  
(505) 821-7620

Material Safety Data Sheet  
Material/Trade Name: Advance Liquid Copper  
Stock Number(s): 335-171  
MSDS Code: RIO-473

Chronic Signs and Symptoms of Overexposure: None Known

## SECTION VI HEALTH HAZARD DATA (Continued)

Carcinogenicity? No                      NTP                      IARC                      ACGIH                      OSHA

\*No ingredients listed in this section\*

**Conditions That May Increase Overexposure Potential:** The extent of exposure to this product will depend largely on the intensity and duration of product use. Employers who supply this product for use by their employees must determine the conditions under which overexposure can result.

**Medical Conditions Generally Aggravated by Exposure:** Damaged skin, Wilson's disease-a disease in which the body abnormally absorbs and retains copper. May be fatal if untreated.

## FIRST AID PROCEDURES:

**Eye Contact:** Flush eyes with plenty of water. If irritation develops and persists, seek medical attention.  
**Skin Contact:** Remove contaminated clothing and wash affected area with soap and water. Seek medical attention if irritation develops and persists.  
**Inhalation:** Remove victim to fresh air. Restore breathing if necessary. Seek medical attention immediately.  
**Ingestion:** Give large amounts of water. Seek medical attention.

## SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

**Actions to Take For Spills:** Absorb with inert material (sand, vermiculite, etc.). Sweep or scoop up and put in disposal container. Flush area immediately with plenty of water; prevent washings from entering waterways.

**Waste Disposal:** Dispose of via a licensed firm in accordance with federal, state and local regulations (see EPA 40 CFR 261).

**Precautions to be Taken in Handling and Storage:** Store in cool, dry location.

**Community Right-to-Know Requirements:** SARA 302: Copper, RQ= 5000 lbs; Ammonia, RQ= 100 lbs, TPQ= 500 lbs (EPA Extremely Hazardous Substance) (see 40 CFR 355).

**SARA 313:** Annual release reporting requirements for Copper Powder, Ammonia (see 40 CFR 372.65).

## SECTION VIII EMPLOYEE PROTECTION MEASURES

**Ventilation:** Local ventilation is preferred to meet TLV requirements. General ventilation is acceptable, if exposure is maintained below TLV.

**Respiratory Protection:** When airborne concentrations exceed the TLV or are unknown, use a NIOSH/MSHA approved respirator for dust, mist and fumes in accordance with the OSHA respiratory protection requirements (29 CFR 1910.134).

**Eye Protection:** Safety glasses or goggles

**Protective Gloves:** Rubber gloves are recommended.

**Other Protective Equipment:** Clothing to protect against skin contact

**Work/Hygiene Practices:** Eyewash station and safety shower should be available in areas of use. Wash thoroughly after handling product.

The information herein is given in good faith, but no warranty, express or implied, is made.



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Material Safety Data Sheet  
Material/Trade Name: Advance Rust Patina  
Stock Number(s): 335-172  
MSDS Code: RIO-474

### SECTION I PRODUCT/SUPPLIER INFORMATION

Material/Trade Name: Advance Rust Patina	Emergency Telephone No.:	(800) 255-3924
Synonyms: Aqueous Salt Solution	Nonemergency Safety/Technical Information Telephone No.:	(505) 821-7620
Stock Numbers: 335-172	Supercedes our version dated:	Original
	Based on Manufacturer's MSDS:	03/17/95
	DATE PREPARED:	03/23/95

### SECTION II INGREDIENT/EXPOSURE LIMIT INFORMATION

Component (synonym)	%	CAS No.	TLV	PEL	REL
Sodium Silicate	<30	1344-09-8	N.E.	N.E.	N.E.

N.E. = None Established (Exposure Limit)

### SECTION III PHYSICAL PROPERTIES

Vapor Pressure (mm Hg):	Not Available	Specific Gravity:	1.10
Vapor Density (Air = 1):	Not Available	Boiling Point:	212°F (100°C)
Solubility in Water:	Soluble	Evaporation Rate:	> Ether
Appearance:	Rust colored liquid	Volatility (%):	>95
Odor:	Not Available	pH:	Not Available
Melting Point:	Not Available		

### SECTION IV FIRE AND EXPLOSION DATA

Flash Point: None Known	Flammable Limits:	LEL: Unknown
Auto Ignition Temperature: Not Available		UEL: Unknown

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical

Special Fire Fighting Procedures: Fire fighters should wear full turnout gear and pressure-demand self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: None Known

### SECTION V REACTIVITY DATA

Stable? Yes      Conditions to Avoid: Elevated temperatures, confined areas with poor exhaust, freezing temperatures

Incompatibility (Materials to Avoid): Strong alkalis, acids

Hazardous Decomposition Products: None Known

Hazardous polymerization may occur? No      Conditions to Avoid: None Known

### SECTION VI HEALTH HAZARD DATA

Primary Routes of Exposure: Inhalation, skin and eye contact

Acute Signs and Symptoms of Overexposure: May cause minor eye and skin irritation. May dry out skin.

Chronic Signs and Symptoms of Overexposure: None Known

### SECTION VI HEALTH HAZARD DATA (Continued)

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**THE BELL GROUP**



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Material Safety Data Sheet  
Material/Trade Name: Advance Rust Patina  
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MSDS Code: RIO-474

Carcinogenicity? No

NTP

IARC

ACGIH

OSHA

\*No ingredients listed in this section\*

**Conditions That May Increase Overexposure Potential:** The extent of exposure to this product will depend largely on the intensity and duration of product use. Employers who supply this product for use by their employees must determine the conditions under which overexposure can result.

**Medical Conditions Generally Aggravated by Exposure:** None Known

#### FIRST AID PROCEDURES:

<b>Eye Contact:</b>	Flush eye(s) with plenty of water. Seek medical attention if irritation develops and persists.
<b>Skin Contact:</b>	Wash skin with soap and water. Seek medical attention if irritation develops and persists.
<b>Inhalation:</b>	Remove victim to fresh air. Restore breathing if necessary. Seek medical attention immediately.
<b>Ingestion:</b>	Give large amounts of water. Seek medical attention.

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#### SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

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**Actions to Take For Spills:** Absorb with inert material (sand, vermiculite, etc.). Sweep or scoop up and put in disposal container. Flush area immediately with plenty of water; prevent washings from entering waterways.

**Waste Disposal:** Dispose of via a licensed firm in accordance with federal, state and local regulations (see EPA 40 CFR 261).

**Precautions to be Taken in Handling and Storage:** Store in cool, dry location.

**Community Right-to-Know Requirements:** None Known

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#### SECTION VIII EMPLOYEE PROTECTION MEASURES

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**Ventilation:** Local ventilation is preferred to meet TLV requirements. General ventilation is acceptable, if exposure is maintained below TLV.

**Respiratory Protection:** When airborne concentrations exceed the TLV or are unknown, use a NIOSH/MSHA approved respirator for dust, mist and fumes in accordance with the OSHA respiratory protection requirements (29 CFR 1910.134).

**Eye Protection:** Safety glasses or goggles

**Protective Gloves:** Rubber gloves are recommended.

**Other Protective Equipment:** Appropriate clothing to prevent skin contact

**Work/Hygiene Practices:** Eyewash station and safety shower should be available in areas of use. Wash thoroughly after handling product.

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