

# Cuprinol® Wood Preservative & Cuprinol Wood Seal Technical Product Information

	CUPRINOL® CLEAR WOOD SEAL	CUPRINOL® NO. 20 CLEAR WOOD PRESERVATIVE	CUPRINOL® NO. 10 GREEN WOOD PRESERVATIVE
<b>USES</b>	Use on exterior above-grade wood—pressure-treated, bare, or previously oil-base stained. Siding, decks, furniture, etc.	Use on previously-untreated bare exterior wood—roofs, siding, fences, decks. As a primer before oil-base paints.	Use on exterior wood below-grade and on wood in frequent contact with soil and water—fence posts, footings.
<b>SURFACE PREPARATION</b>	Apply only on clean, sound, dry wood free of mildew and/or rot. See individual product labels for information on applications on applications to specific surfaces.		
	Test for mildew by applying a 1:1 solution of chlorine bleach and water. If test area rapidly lightens, mildew is present. Remove mildew with a 1:2 solution of bleach and water. Let stand 30 minutes, then rinse. Pressure rinsing is recommended for best cleaning. Apply product selection after thorough drying.		
	Remove tannin resin bleed with strong detergent and water or a 10% oxalic acid-water solution. Rinse. Remove pitch resin with turpentine or paint thinner. With any cleaning operation, follow product directions and cautions.		
	Caulk and seal cracks before application with Polyseamseal® All-Purpose Adhesive Caulk, Cuprinol® Outdoor Caulk or Seamseal 2002.		
<b>APPLICATION</b>	Synthetic Brush	Natural-Bristle Brush	
	Brush, pad, roller, spray or dip. Any means of application which saturates the wood surface is acceptable.		
	When dipping, immerse siding and shakes/shingles for 15-30 seconds; framing lumber and decking up to 3 minutes.		The longer the dip, the better.
	Best applied at temperatures 40°-90°F. Allow 24 hours between coats. Multiple coats recommended for surface cuts and endgrain.		
<b>APPEARANCE</b>	Opaque-white when liquid, clear when cured.	Clear amber liquid.	Clear green liquid. Preservative imparts color, no pigment.
<b>CLEANUP</b>	Water cleanup.	Clean up with turpentine or paint thinner.	
<b>FINISH EFFECTS</b>	Allow exposed wood to change color and weather naturally.		Green tone not colorfast.

NOTE: Do not use above products as a thinner for other Cuprinol products.

TECHNICAL DATA	NO. 10 GREEN	NO. 20 CLEAR
<b>SOLVENT</b>	Mineral Spirits	Mineral Spirits
<b>PRESERVATIVE</b>	Copper Naphthenate (2% copper metal)	Zinc Naphthenate (2% zinc metal)
<b>BOILING POINT</b>	300°F	300°F
<b>VAPOR PRESSURE</b>	Low at room temp.	Low at room temp.
<b>VAPOR DENSITY (Air = 1)</b>	3.9	3.9
<b>APPEARANCE</b>	green liquid <sup>1</sup>	amber liquid
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1)</b>	0.834	0.815
<b>PERCENT VOLATILE BY VOLUME</b>	85%	85%
<b>EVAPORATION RATE (Ether = 1)</b>	100	100
<b>FLASH POINT (Tag Closed Cup)</b>	104°F	104°F
<b>STORAGE</b>	Do not store above 120°F	
<b>TOXICITY—Liquid—Dry film</b>	Very low <sup>2</sup> Very low <sup>3</sup>	Very low <sup>2</sup> Very low <sup>3</sup>
<b>SOLUBILITY IN WATER</b>	Nil	Nil

**NOTE:**

Cuprinol No. 20 Clear Wood Preservative will not keep new wood looking new. Rather, it will allow wood to weather (turn gray) naturally while minimizing watermarks, mildew, cracking, checking and warping.

Users should be advised as follows: Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing vapor or spray mist. **USE ONLY WITH ADEQUATE VENTILATION. KEEP OUT OF THE REACH OF CHILDREN.** Use goggles, rubber gloves and approved respirator when spraying. Avoid contact with skin, eyes or clothing. In case of contact with skin or eyes, flush with plenty of water for 15 minutes; for eyes, get medical attention. Wash with soap and water after handling and before eating or smoking; wash clothing before re-use. If inhaled remove to fresh air and get medical attention.

Cuprinol® No. 10 Green and No. 20 Clear Wood Preservatives are registered with the U.S. Environmental Protection Agency as wood preservatives. All products containing a fungicide for wood preservation are required to be registered with the EPA.

<sup>1</sup> Green color is produced from fungicide and is not colorfast on wood surfaces exposed to weathering.

<sup>2</sup> Product contains mineral spirits, a petroleum distillate, as solvent. This has a low toxicity level (LD<sub>50</sub> for rats of 6,000 mg/kg). However, excessive prolonged skin contact with liquid product and/or prolonged inhalation in an enclosed space may cause transient localized skin rash and/or respiratory irritation.

<sup>3</sup> The active ingredients, copper and zinc naphthenate have very low toxicity levels (LD<sub>50</sub> for rats of greater than 6,000 mg/kg). As such they do not add appreciably to the toxicity of the liquid or the dry film.

For additional information, call Cuprinol®  
Brand Technical Services.  
800 • 624 • PROS CT 800 • 228 • 7103

**Darworth Company**   
AVON, CONNECTICUT 06001

~~Cuprinol Clear Wood Seal~~  
**Material Safety Data Sheet**

Section I

Manufacturer's Name Darworth Company		Emergency Telephone No. 1-203-677-7721
Address (Number, Street, City, State, Zip Code) P.O. Box K, Tower Lane, Avon, CT 06001		
Chemical Name & Synonyms N/A	Trade Name & Synonyms Cuprinol® #20 Clear Wood Preserv.	
Chemical Family Naphthenate Based Pres.	Formula N/A	C.A.S. Number N/A

Section II - Hazardous Ingredients

Ingredient	CAS#	Percent
MINERAL SPIRITS	8052-41-3	80
T.L.V.:	100 PPM	P.E.L.:
ZINC NAPHTHENATE	12001-85-3	16
T.L.V.:	N/A	P.E.L.:

Section III - Physical Data

Boiling Point: 305-410° F	Specific Gravity: .82
Vapor Pressure: 2 mm Hg @ 68° F	Percent Volatile: 82.8 vol
Vapor Density: HEAVIER THAN AIR	Evaporation Rate: < THAN ETHER
Solubility in Water: NEGLIGIBLE	Melting Point: N/A
Appearance and Odor: CLEAR AMBER LIQUID, MINERAL SPIRITS ODOR.	

Section IV - Fire and Explosion Hazard Data

Flash Point: 104° (F): Flamm.: Lel: : Uel:

Extinguishing Media: FOAM, CO2, DRY CHEMICAL

Special Firefighting: FULL PROTECTIVE EQUIPMENT INCLUDING SELF-  
Procedures : CONTAINED BREATHING APPARATUS SHOULD BE  
USED. WATER SPRAY MAY BE INEFFECTIVE. IF  
WATER IS USED, FOG NOZZLES ARE PREFERABLE.  
WATER MAY BE USED TO COOL CLOSED CONTAINERS  
TO PREVENT PRESSURE BUILD-UP AND POSSIBLE  
AUTO IGNITION OR EXPLOSION WHEN EXPOSED TO  
EXTREME HEAT.

Unusual Fire and : KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM  
Explosion Hazards : HEAT, SPARKS AND OPEN FLAME. CLOSED  
CONTAINERS MAY EXPLODE WHEN EXPOSED TO  
EXTREME HEAT.

Auto Ignition Temperature: APPROX. 255° C (490° F) ASTM D2155

Section V - Health Hazard Data

Threshold Limit Value: REFER TO SECTION II

Effects of Overexposure

Eye :  
Contact : PRIMARY IRRITATION.

Skin :  
Contact : PRIMARY IRRITATION.

Inhalation: ANESTHETIC. IRRITATION OF THE RESPIRATORY TRACT OR  
ACUTE NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE  
FOLLOWING PROGRESSIVE STEPS: HEADACHE, DIZZINESS,  
CONFUSION, OR UNCONSCIOUSNESS.

Ingestion : ACUTE ORAL LD50 (RAT) ZINC NAPHTHENATE=  
4,920 mg/kg

Section V Continued on Page 3

Section V - Health Hazard Data (continued)

Emergency and First Aid Procedures

Eye :  
Contact : FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. CONSULT A PHYSICIAN.

Skin :  
Contact : WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. CONSULT A PHYSICIAN.

Inhalation: MOVE TO FRESH AIR. RESTORE BREATHING. KEEP WARM AND QUIET. NOTIFY A PHYSICIAN.

Ingestion : DO NOT INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

Section VI - Reactivity Data

Stability: STABLE

Conditions to Avoid: N/A

Incompatibility : MATERIALS TO AVOID: STRONG OXIDANTS

Hazardous Decomp. : CO, CO2  
Products :

Hazardous Polymerization: WILL NOT OCCUR

Conditions to Avoid: N/A

Section VII - Spill or Leak Procedures

Steps to be Taken : REMOVE ALL SOURCES OF IGNITION. AVOID  
In Case Material is: BREATHING VAPORS. VENTILATE AREA. CONTAIN  
Released or Spilled: AND REMOVE WITH INERT ABSORBANT AND NON-  
SPARKING TOOLS.

Waste Disposal : DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND  
Method : FEDERAL REGULATIONS. DO NOT INCINERATE  
CLOSED CONTAINERS.

Section VIII - Special Protection Information

Respiratory : IF CONCENTRATION EXCEEDS TLV, USE NATIONAL  
Protection : INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH  
APPROVED RESPIRATOR FOR PETROLEUM VAPORS.

Ventilation

Local Exhaust : INDOORS: DO NOT USE IN A CONFINED SPACE.

Special : N/A

Mechanical : N/A

Other : OUTDOORS: NO HAZARD.

Protective Gloves : USE RUBBER OR OTHER NON-PERMEABLE SUBSTANCE  
GLOVES TO AVOID SKIN CONTACT.

Eye Protection : USE SAFETY EYEWEAR WITH SPLASH GUARDS OR  
SIDE SHIELDS.

Other Protective : N/A  
Equipment :

Section IX - Special Precautions

Precautions To Be : CAUTION : COMBUSTIBLE  
Taken in Handling : KEEP AWAY FROM HEAT AND OPEN FLAME. USE WITH  
and Storing, Etc. : ADEQUATE VENTILATION. AVOID PROLONGED  
INHALATION OF VAPORS. HARMFUL IF SWALLOWED.

Other Precautions :