

QNAP[®]

COPPER NAPHTHENATE



Wood protection you can **trust**.

*Backed by 65+ years of field use and
1000+ years of cumulative global efficacy data.*

Why choose QNAP?

1. QNAP poles are **THE SAFEST** in the industry.
2. QNAP offers the **LONGEST LASTING** protection in the industry.
3. QNAP poles are **SUSTAINABLE** with the most end-of-life options.



SAFETY

QNAP (Copper Naphthenate) does not have a Danger signal word on its EPA registered label. This is because QNAP is not a carcinogen or sensitizer, nor is it corrosive to skin and eyes.

A **skin sensitizer** is a chemical that can cause an allergic response through skin contact. When you become sensitized to a substance, your immune system develops a memory to the specific chemical. Each subsequent exposure takes less of the substance to initiate the allergic reaction and the result may become more severe.

QNAP has clean handling characteristics. That means less risk to the linemen and service crews handling QNAP-treated poles. QNAP is even sold in retail for home-owner applications as QNAP-2 and meets the AWPA M4 standard for end cut and field treatments.



EFFICACY & LONGEVITY

When wood poles are treated with low-odor QNAP, they become some of the longest lasting poles in the industry, backed by over 1000 years of cumulative independent efficacy studies conducted around the world. One ongoing test has been running for 75 years. In fact, utilities have had copper naphthenate poles in the field for more than 65 years.

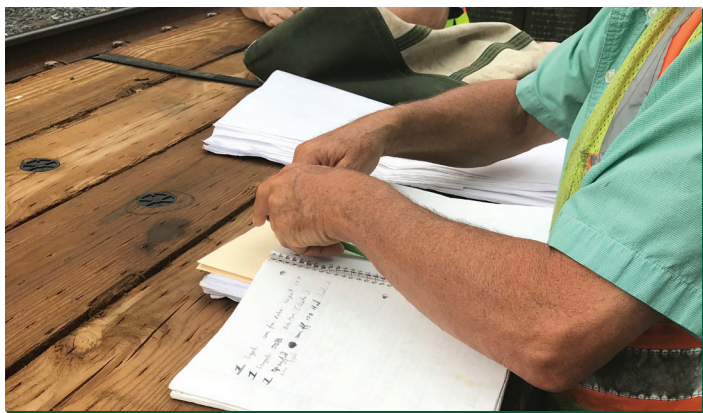
In comparison, peer-reviewed studies suggest that pentachlorophenol poles are the second longest lasting poles, averaging an estimated 55.5 years in service.



ENVIRONMENTAL IMPACT, CARBON & COST

Wood poles have the lowest carbon footprint of any pole available because they are made from renewable resources that capture carbon during their growth. They also continue to be the most economical pole option. QNAP-treated poles are readily available across the country with minimal transportation costs. QNAP is also made in the United States, eliminating the costs and supply chain risks associated with imported preservatives.

In addition, wood poles treated with QNAP show almost no leaching in contrast to other preservatives. At the end of their service life, QNAP-treated poles have the most disposal options available.



Above: QNAP-treated bridge timbers being used as a desk by crews out in the field.



	Pentachlorophenol	DCOI	QNAP COPPER NAPHTHENATE
Non-Carcinogenic	No	Yes	Yes
	No	Yes: currently under EPA registration review.	Yes
	DANGER Carcinogen	DANGER Eye corrosivity and skin sensitization	WARNING
Oldest Pole in Service	>65 years	4 years	>65 years
Long-Term USDA Efficacy	Yes	No	Yes
	Long term (50+ years)	Formosan subterranean termite data incomplete. No long-term field test data on full scale commodities	Long term (70+ years), many studies globally
Measured Leaching	Slight to moderate (no % noted by EPA)	Up to 50 % in AWP data package, and 26% EPA determination soil	0.9% (EPA determination neutral water)
Free from Toxic Heavy Metals & Organochlorines	No	No	Yes
	No	No	Yes
	No	No	Yes
Manufacturing Origin	Mexico	China	United States of America



SALES

Dr. Mark Manning | 805.312.0442 | markm@nisuscorp.com

Nick Godfroid | 469.559.7761 | nickg@nisuscorp.com

TECHNICAL

Dr. Jeff Lloyd | 865.406.9704 | jeffl@nisuscorp.com

Dr. Jae Woo Kim | 865.577.6119 | jwk@nisuscorp.com

