



**NISUS<sup>®</sup>**

**WHY YOUR RAILROAD SHOULD BE USING**

**QNAP<sup>®</sup>**

**COPPER NAPHTHENATE**

**IN YOUR TIE PROGRAM**





# CuNap Track



Railroads across the country are switching their bridge and crosstie programs to **QNAP Copper Naphthenate**.

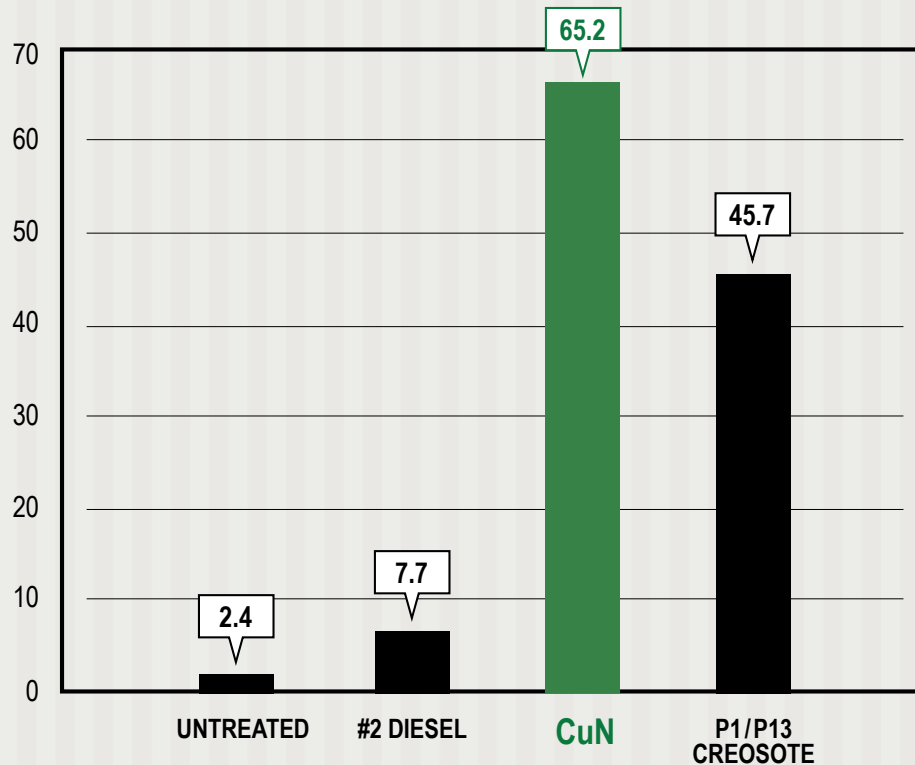




# QNAP TIES LAST LONGER

## ESTIMATED AVERAGE YEARS OF SERVICE LIFE

60th Percentile; USDA FPL RN-01 & -02; MS So. Pine Post Study



Bridge ties treated with **QNAP copper naphthenate** are clean to the touch. Freshly delivered from the treatment plant, these ties are able to be used as a work station for the crew.

# WHY U.S. RAILROADS SHOULD BE USING QNAP

Cleaner handling characteristics

Less drippage and bleeding in commercial experience

Cost-effective, non-restricted use preservative

Better efficacy than creosote

Same lubricating properties as creosote

Compatible with Cellu-Treat borate pretreatment

Non-conductive and non-corrosive

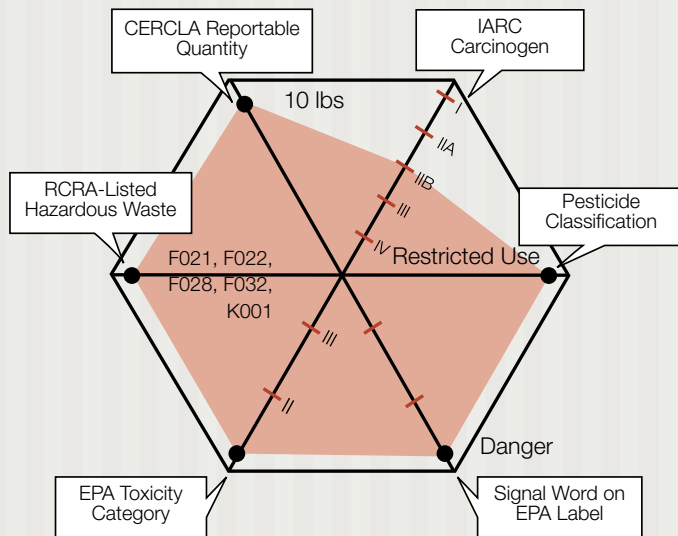
AWPA standards U1 section 6C and P36

Allows recycling and energy recovery

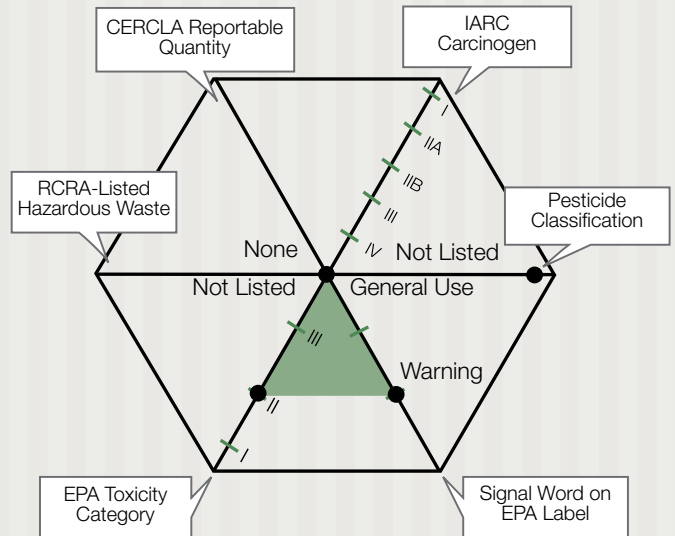


# ENVIRONMENTAL COMPARISON

## CREOSOTE (86.5%)



## QNAP (7.4%)



CATEGORY	CREOSOTE	QNAP
<b>HAZARDOUS AIR POLLUTANTS (HAPs)</b> Percent in RTU Solution	> 80% Comprised mainly of polycyclic organic matter	< 10%
<b>HAPS IN TREATED WOOD</b> Parts Per Million	11,086 Total Semivolatile organic compounds (SVOCs)	111
<b>TREATED WOOD LIFE EXPECTANCY</b> Estimated 60th Percentile Service Life	46 YEARS*	65 YEARS
<b>PESTICIDE CLASSIFICATION</b>	RESTRICTED USE	GENERAL USE
<b>TOXICITY CATEGORY</b>	I (More Toxic)	II (Less Toxic)
<b>SIGNAL WORD ON EPA LABEL</b>	DANGER (More Restrictive)	WARNING (Less Restrictive)
<b>RCRA LISTED HAZARDOUS WASTE</b>	F034, K001, K035, U051	Not Listed as a Hazardous Waste
<b>SELECT CARCINOGEN</b>	Probable Carcinogen	Not Listed as a Carcinogen / Possible Carcinogen
<b>CERCLA REPORTABLE QUANTITY (RQ)</b> Lbs	1	NONE (No reportable quantity requirement if QNAP is spilled)

\*Straight run, low residue, "clean creosote." USDA FPL RN-01 fence post study, Freeman et al. 2005. Proc. AWPA. 101:136-143.





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