

Remedial Treatment Products

Preservative Paste

Brush-on paste is the best choice to protect against external decay in wood poles. Easy brush-on application goes on fast and adheres to wood to reduce waste.

MP400-EXT™

MP400-EXT is a new generation, patent pending remedial preservative paste based on proprietary Osmose technology. This unique preservative system is the first and only commercial paste formulation that utilizes a combination of four industry proven biocides to deliver broad-spectrum control of wood destroying decay fungi and insects when applied to in-service wooden structures.

Independent testing has shown MP400-EXT treated wood to exhibit exceptional biocidal properties against wood decay fungi and insects with minimal chemical loadings. MP400-EXT exhibits low toxicity characteristics favorable to the applicator and the environment and is currently the only remedial paste on the market that has been classified as Toxicity Category III with the EPA signal word of "CAUTION" on the label.

Benefits:

- Four active ingredients for broad-spectrum control
- Patent-pending tebuconazole and bifenthrin combination for insect and fungi control
- Micronized oxine copper technology for protection against soft rot
- Waterborne formulation eliminates petroleum and reduces VOC's
- Lowest toxicity profile of all registered pastes



Technical Data	
Active Ingredients	Copper 8-quinolinolate Tebuconazole Bifenthrin Sodium Tetraborate Decahydrate
Packaging	4 Gallon box
Shipping Description	Non-Hazardous—MP400-EXT
Weight	43 lbs per box – 10.7 lbs. per gallon
Handling and Storage precautions	Wash thoroughly after handling. Reseal containers immediately after use. Store away from food and beverages.
In the event of accidental release	Utilize protective clothing. Spill should be taken up mechanically and placed in appropriate containers. Wash down spill area with water. Collect wash water for approved disposal.
Waste Disposal	Follow container label instructions for disposal of wastes generated during use in compliance with the FIFRA product label. Do not reuse container.
Basic Personal Protection "CAUTION" <i>For more detailed Personal Protective Measures please refer to the label & MSDS Information.</i>	RESPIRATORY PROTECTION: Normally not needed. PROTECTIVE GLOVES: Rubber or Nitrile Gloves EYE PROTECTION: Wear face shield or goggles. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: As necessary to avoid skin contact.
Appearance	Brownish-Green
Odor	Faint Organic odor
Freezing Point	Not Determined
Melting Point	N/A
Flash Point/Auto Ignition Temperature	N/A

Remedial Treatment Products

Ordering Information:

MP400-EXT™

Item Description	Item ID	UOM	Shipping Weight
4 gallon box (2—2 gallon pouches)	65-110-010-040	Gallon	43 lbs. per 4 gallon box

OsmoShield™

Item Description	Item ID	UOM	Shipping Weight
OsmoShield—22" x 100' roll (6 per box)	75-080-030-022	Roll	40 lbs. per box of 6
OsmoShield—24" x 100' roll (6 per box)	75-080-010-024	Roll	55 lbs. per box of 6

Remedial Treatment Products

Preservative Paste

COP-R-PLASTIC™ II

The main active ingredient, sodium fluoride, diffuses into the wood, helping to protect the vulnerable sapwood from decay and insects. The combination of oil borne Copper Naphthenate and Sodium Fluoride provides protection against broad spectrum of wood-destroying fungi.

Apply to a thickness of 1/16" on poles or timbers. Typical pole application is from 3" above to 18" below groundline and lower where deeper decay is suspected. Application on poles to be restored should extend the length of wrap-around type repair systems. Wrap the treated area with water-proof bandage, OsmoShield™ (see page 8).



Technical Data	
Active Ingredients	Sodium Fluoride—44.42% Copper Naphthenate—17.68% (Equivalent to 2.0% Copper as Metal) Inert Ingredients** —37.90% (Contains Petroleum Distillates) Total—100.00%
Packaging	4 Gallon box contains (2) - 2 Gallon Pouches
Shipping Description	Sodium fluoride, solid, mixture, 6.1, UN1690, PGIII
Weight	50 lbs per box – 12.41 lbs. per Gallon
Handling and Storage precautions	Store in dry area. Do not store near open flames. Empty drums may present explosive hazards. Do not store or use near heat or open flames, such as welding or cutting torches. OTHER PRECAUTIONS: Read and follow label instructions.
In the event of accidental release	Remove all sources of ignition and contain spill as soon as possible. Recover as much product as possible for reuse. Absorbents compatible with petroleum may be used to soak up spill. Do not allow spill material or residue to reach water. Major spills need to be reported to the National Response Center.
Waste Disposal	See label; Do not contaminate water (product is toxic to fish). Bury in approved landfill. Dispose in accordance with Federal, State and local laws.
Basic Personal Protection	RESPIRATORY PROTECTION: Normally not needed. PROTECTIVE GLOVES: PVA, PVC or neoprene or other chemically resistant gloves. EYE PROTECTION: Wear face shield or goggles. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: As necessary to avoid skin contact.
Appearance	Dark Green Thixotropic Paste
Odor	Faint Napthenic Acid or Faint Organic Solvent
Freezing Point	N/A
Melting Point	96°F
Flash Point/Auto Ignition Temperature	200F°/ N/A

For more detailed Personal Protective Measures please refer to the label & MSDS Information.

Remedial Treatment Products

Ordering Information:

COP-R-PLASTIC™ II

Item Description	Item ID	UOM	Shipping Weight
4 gallon box (2—2 gallon pouches)	65-020-700-040	Gallon	50 lbs. per 4 gallon box

OsmoShield™:

Item Description	Item ID	UOM	Shipping Weight
OsmoShield—22" x 100' roll (6 per box)	75-080-030-022	Roll	40 lbs. per box of 6
OsmoShield—24" x 100' roll (6 per box)	75-080-010-024	Roll	55 lbs. per box of 6

Remedial Treatment Products

Fumigants

For more than 70 years, Osmose has set the industry standard for effective remedial treatment products. We have provided wood pole fumigants since 1976 and currently offer a complete line to meet the needs of your wood pole asset management program.

MITC-FUME®

A methylisothiocyanate (MITC) based product that offers easy application and a higher level of protection against internal decay. MITC-FUME is 97% MITC in a solid-melt form pre-packaged in individual dose tubes. The combination of effectiveness and ease-of-application has helped to make MITC-FUME the most widely used fumigant in the United States.

Benefits of MITC-FUME:

- Pre-measured in 30-gram tubes, ensures proper dosage application. Easy to Q.C.
- Slow release. Long term protection.
- Solid melt formulation: Reduces risk of fumigant loss through voids and checks.
- Safer application: No transfer or measuring of chemical.
- Increased efficacy: Due to a combination of all the above factors.

Recommended application rates are as follows:

- 3 tubes for poles < 36"
- 4 tubes for poles 36" - 49"
- 5 tubes for poles 50" - 59"
- 6 tubes for poles 60" - 69"
- 7 tubes for poles 70" - 79"
- 8 tubes for poles 80" - 89"
- 9 tubes for poles 90"+

Pesticide Applicators License is required for state product is shipping into.



Technical Data	
Active Ingredients	Methylisothiocyanate—97.00% Inert Ingredients—3.00% Total—100.00%
Packaging	Packaged 270 tubes per carton (18 canisters of 15 tubes each).
Shipping Description	Preservatives, Wood, NOI, Liquid in inner containers in boxes. NMF 161490 Methylisothiocyanate, 6.1, UN2477, PGI. This Package Conforms to Conditions and Limitations Specified in 49 CFR 173.4 and DOT-SP 11900. Must ship via LTL carrier.
Weight	32 lbs. per case
Handling and Storage precautions:	Store only in closed original container to prevent leakage. Store in cool, well ventilated, locked areas away from food and foodstuff, out of reach of children and irresponsible persons. Avoid exposure to heat and/or direct sunlight.
Steps to be taken in the event of accidental release	Remove all sources of ignition and contain spill as soon as possible. Recover as much product as possible for reuse. Absorbents compatible with petroleum may be used to soak up spill. Do not allow spill material or residue to reach water. Major spills need to be reported to the National Response Center.
Waste Disposal	Wood treated with MITC-FUME IS NOT a hazardous waste. If unused MITC-FUME is disposed of it may be considered a hazardous waste (as per RCRA) because of its ignitability. Disposal of such material should be conducted by an EPA permitted facility. Questions regarding disposal can be directed to EPA's RCRA Hotline at (800) 424-9346. Always dispose in accordance with all Federal, State and Local Laws.

Remedial Treatment Products

Fumigants

MITC-FUME®

Technical Data (con't):

Basic Personal Protection	<p>RESPIRATORY PROTECTION: Under normal outdoor use, there is no need for respiratory protection.</p> <p>PROTECTIVE GLOVES: Rubber or neoprene (limited protection, replace frequently).</p> <p>EYE PROTECTION: Goggles, safety glasses, or face shield.</p> <p>OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Acid-resistant non-porous overalls or aprons.</p> <p>WORK/HYGIENIC PRACTICES: Remove contaminated clothing immediately and launder before reuse. Heavily contaminated clothing should be disposed of. Wash thoroughly after handling, before eating or smoking.</p>
<i>For more detailed Personal Protective Measures please refer to the label & MSDS Information.</i>	
Appearance	Colorless to slightly yellow solidified melt.
Odor	Pungent irritating odor as of horseradish.
Freezing Point	N/A
Melting Point	96°F
Flash Point/Auto Ignition Temperature	95F°/698°

Ordering Information:

Customer must provide Osmose Utilities Services, Inc. with a Pesticide Applicators License for the state where the product will be shipped.

Item Description	Item ID:	UOM	Shipping Weight:
MITC-FUME (carton of 270 tubes)	65-050-100-000	Carton	35 lbs. per carton

Additional Products

Item Description	Item ID:	UOM	Shipping Weight:
MITC-FUME Opening Tool	90-060-220-010	Each	3 lbs. each
MITC-FUME Tags	90-090-120-011	500/Bag	1 lb. per bag
MITC-FUME Recovery Kit	90-060-210-010	Each	3 lbs. each
Shell Thickness Indicator - Fumigant	90-060-310-010	Each	1 lb. each

Remedial Treatment Products

Fumigants

DuraFume®

A crystallized solid dazomet-based (98% dazomet) product that decomposes to produce approximately 45% MITC. It is applied from a metered one-gallon container.

Field Trials indicate that Durafume can provide effective fumigant protection. The amount of MITC delivered by dazomet-based fumigants is less than MITC-FUME, but greater than from water based, metam sodium fumigants.



Technical Data	
Active Ingredients	Tetrahydro-3, 5-Dimethyl-2H-1, 3, 5-Thiadiazine-2-Thione—98.00% Inert Ingredients—2.00% Total—100.00%
Packaging	(4) – 7 lb. Bottles per Case
Shipping Description	Non-Hazardous—DuraFume
Weight	28 lbs. per case
Handling and Storage precautions:	Store in cool, dry area.

Remedial Treatment Products

Fumigants

DuraFume®

Technical Data (con't)	
In the event of accidental release	Before responding to a spill or leak of this product, review each section of the MSDS. Follow the recommendations given in the Handling Precautions sections. Check the Fire and Explosion Data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritation fumes are present, consider evacuation of affected areas. Initially minimize area affected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc.). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g. water systems, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments. Determine if federal, state, and/or local release notification is required. Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay, soil, or commercially available absorbents may be used to recover any material that can not readily be recovered as pure product. Flushing residual material to an industrial sewer, if present at the site of a spill or leak incident may be acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed to an industrial sewer insure that they do not come into contact with incompatible materials. In the event of a spill, Buckman Laboratories is available for technical assistance at 901-767-2722.
Waste Disposal	Dispose of in accordance with Federal, State, and Local laws. This product is not specifically listed in 40 CFT 261 as a Resource Conservation and Recovery Act (RCRA) hazardous waste. However, spill or leak residuals may meet the criteria for a characteristic hazardous waste under this Act. Check the characteristics of the material to be disposed of and/or the physical and reactivity data given in this MSDS for the neat product. Empty containers, as defined by appropriate sections of RCRA, are not RCRA hazardous wastes. However, insure proper management of any residuals remaining in container.
Basic Personal Protection <i>For more detailed Personal Protective Measures please refer to the label & MSDS Information.</i>	RESPIRATORY PROTECTION: No ACGIH TLV or OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice. If dusting can occur, a NIOSH approved respirator is recommended. PROTECTIVE GLOVES: Rubber gloves. EYE PROTECTION: Wear goggles or face shield. Eye wash fountains in the work place are recommended. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Protective clothing as necessary to avoid skin contact.
Appearance	White crystalline solid.
Odor	Slight odor
Freezing Point	N/A
Melting Point	N/A
Flash Point/Auto Ignition Temperature	N/A

Remedial Treatment Products

Ordering Information:

DuraFume®

Item Description	Item ID	UOM	Shipping Weight
DuraFume—(4) - 7lb. bottles per box	65-070-100-000	Lb	28 lbs. per box

Additional Products

Item Description	Item ID	UOM	Shipping Weight
DuraFume Tags (500/bag)	90-090-200-010	Each	1 lb. per bag of 500

Remedial Treatment Products

Fumigants

WoodFume®

An easy to apply liquid fumigant that decomposes to MITC at a theoretical maximum rate of 32.7% after being placed into wood. Its active ingredient is sodium methyl dithiocarbamate—a general use pesticide of proven effectiveness.

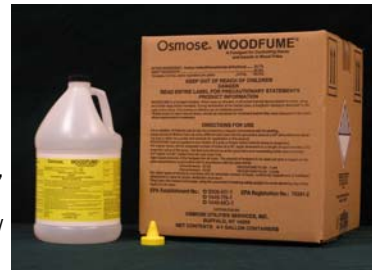
Recommended uses for all fumigants:

- Where full excavation is impractical such as poles set in pavement.
- In combination with proven external groundline preservatives.
- Where incipient decay is proven or suspected including use for all older Douglas-fir, western red cedar and southern pine poles.
- For poles in areas characterized by decay at a depth greater than 18" below groundline.
- To treat inspection or bolt holes.

Recommended application rates are as follows:

- 1 pint to poles with a groundline circumference under 40".
- 2 pints to poles with a groundline circumference over 40".

Refer to product label for information on drilling patterns for application.



Technical Data	
Active Ingredients	Sodium methyl dithiocarbamate (Anhydrous)—32.70% Inert Ingredients—67.30% Total—100.00%
Packaging	12 pints per box (4) – 1 gallon bottles per box 55 gallon drum
Shipping Description	Environmentally hazardous substance, liquid, n.o.s., 9, UN3082, PGIII (Metam Sodium)
Weight	17 lbs. per box (pints) 44 lbs. per box (gallons) 575 lbs. per drum
Handling and Storage precautions:	Store in cool, dry area away from direct sunlight, flammable materials, and open flames. Do not store below 0°F.

Remedial Treatment Products

Fumigants

WoodFume®

Technical Data (con't)	
In the event of accidental release	Before responding to a spill or leak of this product, review each section of the MSDS. Follow the recommendations given in the Handling Precautions sections. Check the Fire and Explosion Data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritation fumes are present, consider evacuation of affected areas. Initially minimize area affected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc.). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g. water systems, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments. Determine if federal, state, and/or local release notification is required. Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay, soil, or commercially available absorbents may be used to recover any material that can not readily be recovered as pure product. Flushing residual material to an industrial sewer, if present at the site of a spill or leak incident may be acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed to an industrial sewer insure that they do not come into contact with incompatible materials.
Waste Disposal	This product is toxic to fish. Do not contaminate water. Dispose of in accordance with Federal, State, and Local laws. This product is not specifically listed in 40 CFT 261 as a Resource Conservation and Recovery Act (RCRA) hazardous waste. However, spill or leak residuals may meet the criteria for a characteristic hazardous waste under this Act. Empty containers, as defined by appropriate sections of RCRA, are not RCRA hazardous wastes. However, insure proper management of any residuals remaining in container.
Basic Personal Protection <i>For more detailed Personal Protective Measures please refer to the label & MSDS Information.</i>	RESPIRATORY PROTECTION: No ACGIH TLV or OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice. If needed, use MSHA/NIOSH approved respirator for pesticides. PROTECTIVE GLOVES: Rubber. EYE PROTECTION: Chemical goggles. Eye wash fountains in the work place are strongly recommended. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Impervious clothes and shoes recommended. Additional protection, such as full body suit and boots, may be required depending on conditions.
Appearance	Clear yellow to yellow-green liquid
Odor	Strong amine sulfur odor
Freezing Point	32°F
Melting Point	N/A
Flash Point/Auto Ignition Temperature	212°F/ N/A

Remedial Treatment Products

Ordering Information:

WoodFume®

Item Description	Item ID	UOM	Shipping Weight
WoodFume—12 pints per box	65-050-500-000	Pint	17 lbs. per box
WoodFume—(4) 1-gallon containers/box	65-050-200-040	Gallon	44 lbs. per box
WoodFume—55 gallon drum	65-050-400-055	Gallon	575 lbs. per drum

Additional Products

Item Description	Item ID	UOM	Shipping Weight
WoodFume Tags (500/bag)	90-090-140-011	Each	1 lb. per bag of 500

Remedial Treatment Products

Solid-Rods and Internal Treatments

FLURODS™

Designed to help protect against internal decay in wood poles, pilings and other structural wood members. As a stand-alone treatment, it is ideally used for pole tops, inspection holes, spar arms, pre-drilled framing holes and where hardware is attached to poles.

Solid FLURODS contain sodium fluoride, a highly effective, internationally-recognized, diffusible wood preservative. FLURODS are clean, easy to handle and install.

Refer to our FLUROD Technical Bulletin for application rates alone and in combination with external treatments.



Technical Data	
Active Ingredients	Sodium Fluoride—92.60% Inert Ingredients—7.40% Total—100.00%
Packaging	½" x 3" – 50 per box – 10 boxes per case 5/16" x 1 ½" – 350 per container – 8 containers per case
Shipping Description	Sodium fluoride, solid, 6.1, UN1690, PGIII, Limited Quantity
Weight	3 lbs. per box/container – 32 lbs. per case
Handling and Storage precautions:	Store in cool, dry area away from direct sunlight, flammable materials, and open flames. Do not store below 0°F.
In the event of accidental release	Pick up rods and place back into container. If a rod breaks, sweep up. Use broken rod if possible. If rod is crushed, sweep up dust and dispose of in sanitary landfill.
Waste Disposal	This product is toxic to fish. Do not contaminate water. Dispose of in accordance with Federal, State, and Local laws. This product is not specifically listed in 40 CFT 261 as a Resource Conservation and Recovery Act (RCRA) hazardous waste. However, spill or leak residuals may meet the criteria for a characteristic hazardous waste under this Act. Empty containers, as defined by appropriate sections of RCRA, are not RCRA hazardous wastes. However, insure proper management of any residuals remaining in container.
Basic Personal Protection <i>For more detailed Personal Protective Measures please refer to the label & MSDS Information.</i>	RESPIRATORY PROTECTION: No ACGIH TLV or OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice. If needed, use MSHA/NIOSH approved respirator for pesticides. PROTECTIVE GLOVES: Rubber EYE PROTECTION: Chemical goggles. Eye wash fountains in the work place are strongly recommended. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Impervious clothes and shoes recommended. Additional protection, such as full body suit and boots, may be required depending on conditions.
Appearance	Solid white rod
Odor	No odor
Freezing Point	32°F
Melting Point	1819°F
Flash Point/Auto Ignition Temperature	N/A

Remedial Treatment Products

Ordering Information:

FLURODS™

Item Description	Item ID	UOM	Shipping Weight
1/2" x 3" - 50 per box	65-040-100-030	Each	3 lbs. per box
5/16" x 1-1/2" - 350 per box	65-040-200-010	Each	3 lbs. per box

Additional Products

Item Description	Item ID	UOM	Shipping Weight
FLUROD Tags (500/bag)	90-090-090-010	Each	1 lb. per bag of 500

Remedial Treatment Products

Solid-Rods and Internal Treatments

COP-R-NAP™

A very effective copper based internal treatment/fungicide. COP-R-NAP is used to control fungal decay organisms and wood destroying insects. Applied by internal injection under pressure to poles, pole tops, bore holes, posts and pilings, COP-R-NAP provides control to existing wood destroying organisms while creating a reservoir of protection to help deter future attacks.

Apply 1 gallon or to refusal.

Technical Data	
Active Ingredients	Copper Naphthenate—68.00% (8% copper as metal) Inert Ingredients—32.00% Total—100.00%
Packaging	5 Gallon Pail
Shipping Description	Wood preservatives, liquid, 3, UN1306, III* *According to 49CFR 173.150, this material may be reclassified as a combustible liquid and can be shipped as a non-hazardous material if the container is under 120 gallons.
Weight	46 lbs per pail.
Handling and Storage precautions:	Keep container closed. Handle and open containers with care. Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. The use of explosion-proof equipment is recommended and may be required. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning. "empty" drums should be completely drained and properly bunged. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations. Do not transfer to any unlabeled container. Wash exposed skin thoroughly after handling. Do not wear contaminated clothing or shoes. Use good personal hygiene practice. For industrial use only. Keep container(s) tightly closed. Use and store this material in a cool, dry, well-ventilated area away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post "NO SMOKING OR OPEN FLAME". Store only in approved containers. Keep away from any incompatible material. Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.
In the event of accidental release	Eliminate all ignition sources. Spilled material may be absorbed into an appropriate absorbent material. Prevent spilled material from entering sewers, storm drains, other authorized treatment drainage systems, and natural waterways. Stop spill/release if it can be done with minimal risk. Stay upwind and away from spill/release. Isolate danger and keep unauthorized personnel out. Use non-sparking tools and explosion-proof equipment. Recover by pumping (use an explosion-proof or hand pump) or with a suitable absorbent. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Remedial Treatment Products

Solid-Rods and Internal Treatments

COP-R-NAP™

Technical Data (con't)	
Waste Disposal	If waste product has a flash point below 140°F, it must be treated as a RCRA hazardous waste "ignitable". Such waste must be disposed at an approved hazardous waste TSD facility. Potential disposal methods include incineration and land disposal, if permitted by the facility in question. Dispose in accordance with Federal, State, and local laws.
Basic Personal Protection	<p>RESPIRATORY PROTECTION: Normally not needed. If TLV of any component is exceeded, a NIOSH/MSHA self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure modes is advised. Contact industrial hygienist.</p> <p>VENTILATION REQUIREMENTS: Provide sufficient mechanical (general) and/or local exhaust ventilation to maintain exposure below TLVs.</p> <p>PROTECTIVE GLOVES: Petroleum resistant such as Neoprene.</p> <p>EYE PROTECTION: Chemical goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other types of safety glasses.</p> <p>OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.</p> <p><i>For more detailed Personal Protective Measures please refer to the label & MSDS Information.</i></p>
Appearance	Green liquid
Odor	Petroleum odor
Freezing Point	Unknown
Flash Point/Auto Ignition Temperature	100°F /445°F

Ordering Information:

COP-R-NAP™ (Copper Naphthenate – 8% copper as metal)

Item Description	Item ID	UOM	Shipping Weight
1 to 3 Concentrate—5 gallon pail	65-030-040-005	Gallon	46 lbs. per 5 gallon pail

Remedial Treatment Products

Solid-Rods and Internal Treatments

CU-89 RTU II™

Similar to Cop-R-Nap, CU-89- RTU is a ready-to-use copper based internal treatment/fungicide used to control fungal decay organisms and wood destroying insects. Applied by internal injection under pressure to poles, pole tops, bore holes, posts and pilings, Cop-R-Nap provides control to existing wood destroying organisms while creating a reservoir of protection to help deter future attacks.



Technical Data	
Active Ingredients	Copper Naphthenate—17.00% (2% copper as metal) Inert Ingredients—83.00% Total—100.00%
Packaging	16 fl. oz. Bottle 5 Gallon Pail 55 Gallon Drum
Shipping Description	Wood preservatives, liquid, 3, UN1306, III* *According to 49CFR 173.150, this material may be reclassified as a combustible liquid and it can be shipped as a non-hazardous material if the container is under 120 gallons.
Weight	17 lbs. per box of 16 fl. oz. bottles 39 lbs. per Pail 503 lbs. per Drum
Handling and Storage precautions:	Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, frill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition: They may explode and cause injury or death. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. OTHER PRECAUTIONS: Use product with caution around heat, sparks, pilot lights, static electricity, and open flame. Read label.
In the event of accidental release	Eliminate all sources of ignition (flares, flames, including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, or floor absorbent and shoveled into containers. Prevent run-off to sewers, streams or other bodies of water.

Remedial Treatment Products

Solid-Rods and Internal Treatments

CU-89 RTU II™

Technical Data	
Waste Disposal	WASTE DISPOSAL METHODS: If waste product has a flash point below 140°F, it must be treated as a RCRA hazardous waste "ignitable". Such waste must be disposed at an approved hazardous waste TSD facility. Potential disposal methods include incineration and land disposal, if permitted by the facility in question. Dispose in accordance with Federal, State, and local laws.
Basic Personal Protection <i>For more detailed Personal Protective Measures please refer to the label & MSDS Information.</i>	<p>RESPIRATORY PROTECTION: Normally not needed. If TLV of any component is exceeded, a NIOSH/MSHA self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure modes is advised. Contact industrial hygienist.</p> <p>PROTECTIVE GLOVES: Petroleum resistant such as Neoprene.</p> <p>EYE PROTECTION: Chemical goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other types of safety glasses.</p> <p>OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.</p>
Appearance	Green liquid
Odor	Petroleum odor
Freezing Point	Unavailable
Flash Point/Auto Ignition Temperature	162°F / N/A

Ordering Information:

CU-89 RTU II™ – Ready to Use Solution (Copper Naphthenate – 2% copper as metal)

Item Description	Item ID	UOM	Shipping Weight
Pole Topper Fluid—box of (12) 16 oz. bottles	65-030-050-016	Bottle	17 lbs. per box
5 gallon pail	65-030-050-005	Gallon	39 lbs. per pail
55 gallon drum	65-030-050-055	Gallon	503 lbs. per drum

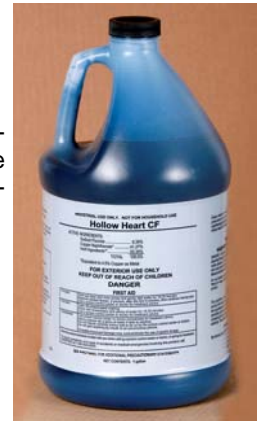
Remedial Treatment Products

Solid-Rods and Internal Treatments

Hollow Heart® CF

Hollow Heart CF concentrate contains recognized diffusible, water-borne preservatives used successfully in wood preserving for decades. This combination of sodium fluoride and copper naphthenate provides deep, long lasting protection against decay. Hollow Heart CF is designed for remedial treatment of in-service poles, piling and posts.

Please see the product label for appropriate mixing and application instructions.



Technical Data	
Active Ingredients	Sodium Fluoride—8.39% Copper Naphthenate—41.27% (Equivalent to 4.5% copper as metal) Inert Ingredients—50.34% Total—100.00%

Ordering Information:

Item Description	Item ID	UOM	Shipping Weight
5 gallon pail	65-060-060-000	Gallon	50 lbs. per pail

Remedial Treatment Products

Pole Bandages

Pole bandages are designed to help protect in-service poles from external decay with a manufactured pre-metered dose of preservative contained in a durable wrap.

Pole Wrap™

Pole Wrap™ has been designed to help protect poles against decay at the critical groundline area. The combination of sodium fluoride—a proven, effective preservative used in wood preservation for more than 40 years—combined with a fiberglass matting, makes for a dry, clean and easy-to-use bandage.

Designed specifically to protect the groundline portion of wooden poles, Pole Wrap contains a recognized water soluble preservative. This preservative penetrates deeply into the wood. Pole Wrap offers protection against decay for a comparable period to your normal groundline treatment cycle, consistent with industry practice.

Pole Wrap has many recommended uses:

- Relocated or reused poles
- New poles, especially those to be set in pavement
- Poles set in locations vulnerable to decay
- High value installations
- Standing poles that have the groundline disturbed for underground cable installations or grade change
- Poles stored for six months or more

Packaging:

Pole Wrap is available as individual or rolled bandages. *Minimum order size is one box.*

Individual (20" wide):

Length	#/box	Shipping Weight
36" bandage	10	37 lbs.
48" bandage	10	48 lbs.
60" bandage	8	62 lbs.

Rolled (20" wide by 25' long—25 lbs. shipping weight) - Estimated usage:

Pole Circumference	Poles per Roll
30"	10
36"	8
48"	6

Packaging:



Installation:



Completed Application:



Remedial Treatment Products

Pole Bandages

Pole Wrap™

Technical Data	
Active Ingredients	Sodium Fluoride—70.60% Inert Ingredients—29.40% Total—100.00%
Shipping Description	Sodium fluoride, solid, mixture, 6.1, UN1690, PGIII
Handling and Storage precautions:	Store in dry area. Do not store near open flames. Use good personal hygiene. Applicators must not eat, drink, or use tobacco products during those parts of the application process that may expose them to the wood treatment formulation.
In the event of accidental release	N/A - Due to physical nature of product.
Waste Disposal	Bury in approved landfill. Dispose in accordance with all Federal, State and local laws.
Basic Personal Protection	<p>RESPIRATORY PROTECTION: Normally not necessary due to physical nature of product.</p> <p>PROTECTIVE GLOVES: Rubber</p> <p>EYE PROTECTION: Wear protective eyewear (goggles, face shield or safety glasses).</p> <p>OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A</p> <p>WORK/HYGIENIC PRACTICES: Follow good work practices. Wash hands before eating, smoking or using tobacco products. Remove contaminated clothing and wash clothing before reuse.</p> <p><i>For more detailed Personal Protective Measures please refer to the label & MSDS Information.</i></p>
Appearance	Dark Gray Bandage
Odor	Odorless
Freezing Point	N/A
Melting Point	1818°F
Flash Point/Auto Ignition Temperature	N/A

Ordering Information:

Item Description	Item ID	UOM	Shipping Weight
20" x 25' Roll	65-100-100-025	Roll	25 lbs. per roll
20" x 36" Bandage—10 each per box	65-100-120-036	Each	37 lbs. per box of 10
20" x 48" Bandage—10 each per box	65-100-140-048	Each	48 lbs. per box of 10
20" x 60" Bandage—8 each per box	65-100-160-060	Each	62 lbs. per box of 8