

# DAC-QM

Liquid

Wood Preservative Concentrate

(For Pressure Plant Use Only)

INDUSTRIAL



POISON



CORROSIVE

Corrosive to Eyes and Skin

**DANGER**

READ THE LABEL BEFORE USING

REGISTRATION NO. 31037

PEST CONTROL PRODUCTS ACT

GUARANTEE:

Didecyl dimethyl ammonium chloride

50.0%

FOR USE ONLY AS A HEAVY DUTY WOOD PRESERVATIVE IN THE TREATMENT OF NON-INDUSTRIAL WOOD PRODUCTS SUCH AS DECKS, PATIOS, FENCING, PLAY STRUCTURES, BOARDWALKS, PICNIC TABLES, LANDSCAPING TIMBERS, RESIDENTIAL FENCING, DOCKS AND WALKWAYS.

## FIRST AID

IF SWALLOWED: Call a poison control centre or doctor IMMEDIATELY for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin IMMEDIATELY with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed. Avoid alcohol.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

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P.O. Box 520  
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905-854-2244

**Net Contents: Tank Truck Delivery**

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN**

**DANGER.** Corrosive to eyes and skin. DO NOT get on skin, eyes, or clothing. Fatal or poisonous if swallowed. May be fatal if inhaled. Avoid inhaling sprays. Do not discharge into lakes, streams, ponds or public waters. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Wear full-face protection, chemical-resistant coveralls over a long sleeved shirt and long pants, chemical-resistant gloves, socks and chemical-resistant footwear when handling the concentrate or dilute solution, when opening treating cylinder doors and during cleaning, maintenance and repair activities on storage vessels or treating cylinders. In addition, wear either a respirator with a NIOSH/MSHA/BHSE approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH/MSHA/BHSE approved canister approved for pesticides when handling the concentrate, when handling the dilute solution if the area is not well ventilated, when opening treating cylinder doors and during cleaning, maintenance and repair activities on storage vessels or treating cylinders. Wear chemical-resistant coveralls over a long sleeved shirt and long pants, goggles or face shield and chemical-resistant gloves when handling freshly treated wood. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **USER SAFETY RECOMMENDATIONS:**

Users should wash hands before drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove personnel protective equipment immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly.

### **ENVIRONMENTAL HAZARDS**

TOXIC to aquatic organisms.

### **SAFE HANDLING PROCEDURES**

Do not attempt to use without implementing the necessary safety equipment. Applicators must not eat or drink, or use tobacco products during those parts of the application process that may expose them to the wood treatment concentrate or solutions (i.e., manually opening/closing cylinder doors, moving trams out of the cylinder, mixing chemicals, handling freshly treated wood, etc.).

Wash thoroughly after skin contact and before eating, drinking, using tobacco products, or using restrooms.

Protective clothing must be replaced when it shows signs of significant contamination. Applicator must leave all protective clothing, work shoes or boots, and equipment at the treatment plant. Worn out or severely contaminated protective clothing must be disposed of in a manner approved for pesticide disposal and in accordance with provincial and federal regulations.

### **GENERAL INFORMATION**

DAC-QM is Didecyl dimethylammonium chloride for use in the formulation of amine copper quat wood preservative solutions.

## USE LIMITATIONS

The use of DAC-QM plus NW 100-C Wood Preservative Concentrate (PCP #28634) is for preservation of treated wood against fungal decay. For use as a heavy duty wood preservative in the treatment of non-industrial wood **for above ground and ground contact** in the following categories: Residential construction such as decks, patios, fencing, lattice panels, deck accessories, play structures, siding, plywood, sill plate, and/or Recreational applications such as walkways, boardwalks, landscaping, docks, gazebos, and/or General Construction and commercial applications such as dimensional lumber, structural timbers, posts, decking, and/or Agriculture and Horticulture applications such as fencing, framing, building poles.

Do not use to treat wood used in critical infrastructures such as bridges, utility poles, pilings, railway ties, foundations, etc. DO NOT apply this product to wood that will be used in water.

Treated wood is not to be used in contact with foodstuffs such as edible plants or for construction of food holding containers, food storage facilities or food growing buildings, e.g., mushroom houses. Treated sawdust, shavings and residues of the treatment process must not come in contact with livestock or be used as bedding or litter.

Do not burn treated wood. For further information on storage, handling, and disposal of treated wood, contact the manufacturer of this product or the provincial regulatory agency.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. DO NOT discharge effluents containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

DO NOT expose treated lumber to rain immediately after treatment. DO NOT float treated lumber in lakes, rivers, streams, or oceans.

## DIRECTIONS FOR USE

The contents are for use in closed vacuum-pressure treatment systems for wood products. Place the wood to be treated into the pressure cylinder and seal unit. Tank mix DAC-QM and NW 100-C, (Reg. No. 28634) and water to produce a 0.5 – 3.4% active solution. The Solution Mixing Table for DAC-QM and NW 100-C is to be used when tank mixing the preservatives to ensure the correct ratio of the actives. The treatment solution should be checked periodically and adjusted if necessary to ensure that the ratio of the two preservative components is maintained.

Treat the wood using the pressure treatment procedures consistent with the equipment being used and standard treatment practices. Treatment conditions must be calibrated to yield the retention levels found in the following table:

<b>End Use</b>	<b>Target Retention DAC-QM + NW 100-C (kg/m<sup>3</sup>)</b>
Above Ground – Non-structural	2.0
Above Ground – Structural	4.0
Ground Contact	6.4

Following treatment, conditions should be provided whereby the wood can undergo stabilization. Observation of the wood should be made to detect the presence of any visible surface residues. Any surface residues must be removed prior to the wood being shipped.

Drip aprons must be roofed, paved and drained to prevent dilution and loss of treatment solution. Store treated lumber on a roofed drip pad until dripping has ceased. Slope lumber on the drip pad to expedite drainage and to ensure that no puddles remain on the surface of the wood. Manage drippage and other related wastes to prevent release in the environment.

**DISPOSAL:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the treatment solutions.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the direction on the label. The use assumes the risk to persons or property that arises from any such use of this product.

\*"NW 100-C" is a trademark of Timber Specialties, Co.

**Solution Mixing Table 1**

**NW 100-C and DAC-QM**

**2:1 Ratio (CuO:quat)**

<b>Solution Strength Active%</b>	<b>Component Balance Actives Basis (%)</b>		<b>To mix 10,000 litres of treating solution, combine the following components (all quantities in litres)</b>		
	<b>CuO</b>	<b>QUAT</b>	<b>NW 100-C</b>	<b>DAC-QM</b>	<b>Water</b>
0.50	0.333	0.167	253	40	9707
0.55	0.367	0.183	278	44	9678
0.60	0.400	0.200	303	48	9648
0.65	0.433	0.217	329	52	9619
0.70	0.467	0.233	354	56	9590
0.75	0.500	0.250	379	60	9560
0.80	0.533	0.267	404	64	9531
0.85	0.567	0.283	430	68	9502
0.90	0.600	0.300	455	72	9473
0.95	0.633	0.317	480	76	9443
1.00	0.667	0.333	506	80	9414
1.10	0.733	0.367	556	88	9355
1.20	0.800	0.400	607	96	9297
1.30	0.867	0.433	657	105	9238
1.40	0.933	0.467	708	113	9180
1.50	1.000	0.500	758	121	9121
1.60	1.067	0.533	809	129	9062
1.70	1.113	0.567	860	137	9004
1.80	1.200	0.600	910	145	8945

1.90	1.267	0.633	961	153	8887
2.00	1.333	0.667	1011	161	8828
2.10	1.400	0.700	1062	169	8769
2.20	1.467	0.733	1112	177	8711
2.30	1.533	0.767	1163	185	8652
2.40	1.600	0.800	1213	193	8594
2.50	1.667	0.833	1264	201	8535
2.60	1.733	0.867	1315	209	8476
2.70	1.800	0.900	1365	217	8418
2.80	1.867	0.933	1416	225	8359
2.90	1.933	0.967	1466	233	8301
3.00	2.000	1.000	1517	241	8242
3.10	2.067	1.033	1567	249	8183
3.20	2.133	1.067	1618	257	8125
3.30	2.200	1.100	1669	265	8086
3.40	2.267	1.133	1719	273	8008



**Solution Mixing Table 2****NW 100-C and DAC-QM****1:1 Ratio (CuO:quat)**

<b>Solution Strength Active %</b>	<b>Component Balance Actives Basis (%)</b>		<b>To Mix 10,000 litres of treating Solution, combine the following components (all quantities in liters)</b>		
	<b>CuO</b>	<b>Quat</b>	<b>NW100-C</b>	<b>DAC-QM</b>	<b>Water</b>
0.50	0.250	0.250	181	53	9765
0.55	0.275	0.275	199	59	9742
0.60	0.300	0.300	218	64	9718
0.65	0.325	0.325	236	69	9695
0.70	0.350	0.350	254	75	9671
0.75	0.375	0.375	272	80	9648
0.80	0.400	0.400	290	86	9624
0.85	0.425	0.425	309	91	9600
0.90	0.450	0.450	327	96	9577
0.95	0.475	0.475	345	102	9553
1.00	0.500	0.500	364	107	9529
1.10	0.550	0.550	400	118	9482
1.20	0.600	0.600	437	129	9434
1.30	0.650	0.650	474	140	9387
1.40	0.700	0.700	511	151	9339
1.50	0.750	0.750	548	161	9291
1.60	0.800	0.800	584	172	9243
1.70	0.850	0.850	621	183	9195
1.80	0.900	0.900	659	194	9147
1.90	0.950	0.950	696	205	9099

2.00	1.000	1.000	733	216	9051
2.10	1.050	1.050	770	227	9003
2.20	1.100	1.100	807	238	8955
2.30	1.150	1.150	845	249	8906
2.40	1.200	1.200	882	260	8858
2.50	1.250	1.250	920	271	8809
2.60	1.300	1.300	957	282	8761
2.70	1.350	1.350	995	293	8712
2.80	1.400	1.400	1032	304	8663
2.90	1.450	1.450	1070	315	8615
3.00	1.500	1.500	1108	327	8566
3.10	1.550	1.550	1146	338	8517
3.20	1.600	1.600	1183	349	8468
3.30	1.650	1.650	1221	360	8419
3.40	1.700	1.700	1259	371	8370