



Effective Date: 03/01/2002  
Supersedes Date: NEW

**\*\*\* Section 1 – Product and Company Identification \*\*\***

**Product Name:** ACQ Pressure Treated Wood & Lumber

**Synonyms:** ACQ Treated, ACQ Treated Wood, ACQ Type D

**Product Names:** Preserve® and Preserve® Plus

**Product Use:**

A pressure treated wood with Alkaline Copper and Quaternary Ammonium Compounds. The preserved wood is arsenic-free and protects wood from rot, decay and termite attack. Applications include: decks, fences, landscape architecture, playground equipment, docks, marinas, utility poles, bridges, highway sound barriers, roller coasters, wood foundations and mine shafts.

**Manufacturer Information:**

Georgia-Pacific Corporation  
133 Peachtree Street, N.E.  
Atlanta, GA 30303

Phone: (404)652-5119  
Emergency #: 1-800-424-9300 (Chemtrec)

**\*\*\* Section 2 – Composition / Information on Ingredients \*\*\***

Alkaline Copper and Quaternary Ammonium (ACQ) Components:

CAS #	Component	Percent*	OSHA (PEL)	ACGIH (TLV)
68391-01-5	Alkyl dimethyl benzyl ammonium chloride**	0.2 - 1.0	Not Established	Not Established
10043-35-3	Boric Acid	0.2 – 1.2	Not Established	Not Established
Proprietary	Copper complex expressed as copper oxides	0.3 – 2.1	1 mg/m <sup>3</sup> (As Cu)	1mg/m <sup>3</sup> (As Cu)
141-43-5	Monoethanolamine	0.8 – 5.5	3 ppm TWA 6 ppm STEL	3 ppm TWA 6 ppm STEL
Not Applicable	Hardwoods		5 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> STEL	1 mg/m <sup>3</sup> TWA
Not Applicable	Softwoods		15 mg/m <sup>3</sup> (Total Dust) 5 mg/m <sup>3</sup> (Respirable)	5 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> STEL

\*\*Contains either one or the other of the above Quaternary ammonium compounds depending on which ACQ Wood Preservative is used.

**\*\*\* Section 3 - Hazards Identification \*\*\***

**EMERGENCY OVERVIEW**

**CAUTION:** Sawing, sanding or machining wood products can produce wood dust, which can cause an explosion hazard. Wood dust may cause irritation to the eyes, skin and respiratory tract.

**Target Organ:** Eye, Skin and Respiratory Tract

**Potential Health Effects:**

**Potential Health Effects: Inhalation**

Wood dust may cause nasal dryness, irritation, coughing and sinusitis. Repeated exposure can produce allergic responses in sensitive individuals

**Potential Health Effects: Eye Contact**

Wood dust can cause mechanical irritation.

**Potential Health Effects: Skin Contact**

Various species of wood dust may evoke allergic contact dermatitis in sensitive individuals. If an allergy pre-exists or develops, it may be necessary to remove the sensitized worker from further exposure to wood dust or wood based products.

**Potential Health Effects: Ingestion**

Not applicable under normal conditions of use. Dislodging residue from the wood surface to the hands may increase exposure by incidental ingestion.

**Medical Conditions Aggravated**

Wood dust exposure may aggravate pre-existing skin, eye, respiratory and cardiovascular disorders.

**HMIS Ratings: Health: 1\* Fire: 1 Reactivity: 0 Personal Protection: B**  
(Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4\* = Chronic)

**\*\*\* Section 4 – First Aid Measures \*\*\***

**First Aid: Inhalation**

Remove to fresh air immediately. If breathing is difficult, trained personnel should administer oxygen. If breathing has ceased apply artificial resuscitation using oxygen and a suitable mechanical device such as a bag and a mask. Get immediate medical attention.

**First Aid: Eyes**

Immediately rinse with water. Remove contact lenses. Hold eyelids apart and flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

**First Aid: Skin**

Wash affected area with soap and water until dust is entirely removed from skin. Immediately remove contaminated clothing. If rash, dermatitis or irritation persists, seek medical attention. Launder contaminated clothing before reuse or dispose of properly.

**First Aid: Ingestion**

Not applicable under normal conditions of use.

**\*\*\* Section 5 – Fire Fighting Measures \*\*\***

**FLASH POINT:** Not Applicable

**EXPLOSIVE LIMITS:**

Sawing, sanding or machining wood products can produce wood dust as a by-product. Wood dust is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source. 212°F (100°C) has been suggested as the upper temperature limit for continuous exposure for wood without risk of ignition (wood dust may require still a lower temperature). An airborne concentration of 40 grams of dust per cubic meter of air is often the lower explosion limit (LEL) for wood dust.

**HAZARDOUS COMBUSTION PRODUCTS:**

Thermal-oxidative degradation, or burning of wood can produce irritating and potentially toxic fumes and gases including carbon monoxide, aldehydes and organic acids.

**AUTOIGNITION TEMPERATURE:**

400° - 500°F (204° - 260°C)

**FIRE EXTINGUISH MEDIA:**

Water, carbon dioxide or sand.

**SPECIAL FIRE FIGHTING PROCEDURE:**

Use water to wet down wood dust to reduce the likelihood of ignition or dispersion of dust into the air. Remove burned, charred or wet dust to open, secure area after fire is extinguished.

**NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0**

(Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4)

**\*\*\* Section 6 – Accidental Release Measures \*\*\***

**Accidental Release:**

Not applicable for product in purchased form.

**Clean-Up Procedures:**

Wood dust may be vacuumed or shoveled for recovery or disposal. Wet down accumulated dusts prior to vacuuming or shoveling in order to prevent explosion hazards. Avoid dusty conditions and provide good ventilation. Wood dust clean up and disposal activities should be accomplished in a manner to minimize creation of airborne dust. Do not inhale dusts during clean up.

**\*\*\* Section 7 – Handling and Storage \*\*\***

**Handling Procedures**

Avoid repeated or prolonged breathing of wood dust. Avoid eye contact and repeated or prolonged contact with skin. Change protective clothing and gloves when sign of contamination appear.

**Storage Procedures**

Wood products are combustible and, therefore, should not be subjected to temperatures exceeding the autoignition temperature. Water spray may be used to wet down wood dust generated by sawing, sanding or machining to reduce likelihood of ignition or dispersion of dust into the air.

**\*\*\* Section 8 – Exposure Controls / Personal Protection \*\*\***

**ENGINEERING CONTROLS:**

Due to the explosive potential of wood dust when suspended in air, precautions should be taken during sanding, sawing or machining of wood products to prevent sparks or other ignition sources in ventilation equipment. Use of totally enclosed motors is recommended. Provide local exhaust as necessary to meet OSHA requirements for wood dust exposure.

**PERSONAL PROTECTION EQUIPMENT (PPE):**

(PPE RECOMMENDATIONS BELOW: IT MAY BE NECESSARY TO FOLLOW PPE REQUIREMENTS AS DETERMINED BY YOUR WORKPLACE)

**Personal Protective Equipment: Respiratory**

Use NIOSH approved respirator where ventilation is not possible and if permissible exposure limits to wood dust may be exceeded.

**Personal Protective Equipment: Eyes/Face**

Recommend goggles or safety glasses as conditions indicate when sawing, sanding or machining wood products.

**Personal Protective Equipment: Skin**

Protective equipment, such as gloves and outer garments may be needed to reduce skin contact. After working with the wood, and before eating, drinking, toileting and use of tobacco products, wash exposed areas thoroughly.

**Other Protective Clothing or Equipment:**

No special requirements under normal conditions of use. Protective clothing should be worn where prolonged skin contact may occur. Protective clothing should be laundered separately from household clothing and before reuse.

**\*\*\* Section 9 – Physical & Chemical Properties \*\*\***

**Appearance:** Varies  
**Physical State:** Solid  
**Vapor Pressure:** Not Applicable  
**Boiling Point:** Not Applicable  
**Solubility (H2O):** Insoluble

**Odor:** Ammonium/Woody Odor  
**pH:** Not Applicable  
**Vapor Density:** Not Applicable  
**Melting Point:** Not Applicable  
**Specific Gravity:** <1.0%

**\*\*\* Section 10 – Chemical Stability & Reactivity Information \*\*\***

**Chemical Stability**

This is a stable material.

**Conditions to Avoid**

Wood dust generated from sawing, sanding or machining the product is extremely combustible. Keep in cool dry place away from ignition sources.

**Incompatibility (Materials to Avoid)**

Strong acids, alkalies oxidizing agents and drying oils.

**Hazardous Decomposition or By-Products**

Thermal decomposition products include organic chloride, aldehydes, amines hydrogen chloride, ammonia, copper compounds, oxygen, boric oxide, oxides of carbon and nitrogen. The metals may remain in the ash if the wood is burned.

**Hazardous Polymerization**

Will not occur.

**\*\*\* Section 11 – Toxicological Information \*\*\***

**Wood Dust:** Wood dust generated from sawing, sanding or machining this product may cause nasal dryness, irritation, coughing and sinusitis. The International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) classify wood dust as a (known) human carcinogen (Group I). This classification is based primarily on increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

**Acute and Chronic Toxicity\Carcinogenicity\Chronic Toxicity**

**A: General Product Information**

No data available for the product in purchased form.  
Additional data can be found for the individual components listed in Section 2.

**B: Component Analysis - LD50/LC50**

No data available for the product in purchased form.  
Toxicological values have been published for the individual components listed in Section 2.

**C: Component Carcinogenicity**

No data available for the product in purchased form.  
ACQ components are not listed by IARC, OSHA, or NTP.

**Other Toxicological Information**

No data available for the product in purchased form.

**\*\*\* Section 12 – Ecological Information \*\*\***

**Ecotoxicity**

**A: General Product Information**

This product is not expected to leach harmful amounts of preservative into the environment. However, the wood preservatives in this product contain fungicides and insecticides which when released into the environment, are expected to adversely effect or destroy contaminated plants. They may be harmful or fatal to wildlife.

**B: Component Analysis - Ecotoxicity - Aquatic Toxicity**

Aquatic values have been published for the individual components listed in Section 2.

**Environmental Fate**

No information available.

**\*\*\* Section 13 – Disposal Considerations \*\*\***

**US EPA Waste Number & Descriptions**

**A: General Product Information**

If the material is altered by processing, use or contamination the waste must be tested using methods described in 40 CFR 261 to determine if it meets applicable definitions of hazardous wastes.

**B: Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components.

**Disposal Instructions**

In its purchased form, dispose of treated wood by ordinary trash collection. Treated wood should not be burned in open fires or in stoves, fireplaces or residential boilers because toxic chemicals may be produced as part of the smoke and ashes. Treated wood from commercial or industrial use (e.g. construction sites) may be burned only in commercial or industrial incinerators or boilers in accordance with state and federal regulations.

**\*\*\* Section 14 – Transportation Information \*\*\***

**US DOT Information**

This product is not a DOT hazardous material

**Canadian - Transportation of Dangerous Goods (TDG)**

This product is not listed as a hazardous material.

**\*\*\* Section 15 – Regulatory Information \*\*\***

**US Federal Regulations**

**A: General Product Information**

This product is pressure treated with either of three FIFRA registered wood preservatives. These preservatives fall under the Environmental Protection Agency regulations:

ACQ 2100	EPA Registration Number	10465-37
ACQ 2101	EPA Registration Number	10465-40
ACQ 2102	EPA Registration Number	10465-39

Wood products are not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, wood dust generated by sawing, sanding or machining these products may be hazardous.

Additional information on treated wood and lumber and links to the EPA website(s) may be found at [www.preservedwood.com](http://www.preservedwood.com) or [www.treatedwood.com](http://www.treatedwood.com)

**B: Component Analysis**

This product in its purchased form does not contain SARA identified chemicals.

The individual components listed in Section 2, may be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4):

**Copper complex expressed as Copper oxides (Proprietary)**

SARA 313: form R reporting required for 1.0% de minimis concentration (related to Copper)  
form R reporting required for 1.0% de minimis concentration; Chemical Category N100

**C: Federal Insecticide, Fungicide and Rodenticide Act (FIFRA)**

This product contains the following chemical present on either the Listing of Pesticide Chemical 40 CFR 180 or Pesticides Classified for Restricted use as listed by FIFRA:

**Copper Complex (Proprietary)**

FIFRA Section Number 180.538 (related to copper)

**D: Marine Pollutant**

This product contains chemicals required by US DOT to be identified as marine pollutants:

**Copper Complex (Proprietary)**

SARA 311/312:            **Acute Health: YES    Chronic Health: YES**  
                                 **Fire: YES            Pressure: No    Reactive: No**

**State Regulations**

**A: General Product Information**

Other state regulations may apply. Check individual state requirements.

**B: Component Analysis - State**

The following individual components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Copper Complex (related to copper)	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes
Monoethanolamine	141-43-5	Yes	Yes	Yes	Yes	Yes	Yes
Wood Dust	Not Applicable	No	No	No	Yes	No	Yes

(MN) Yes    Related to wood dust, all soft and hard woods

(PA) Yes    Related to wood dust, soft woods

**A: Component Analysis - Inventory**

Component	CAS #	TSCA	DSL
Alkyl dimethyl benzyl ammonium chloride**	68391-01-5	Yes	Yes
Boric Acid	10043-35-3	Yes	Yes
Copper complex	Proprietary	Yes	Yes
Copper complex expressed as copper oxides	Proprietary	Yes	No
Monoethanolamine	141-43-5	Yes	Yes

**B: Component Analysis - WHMIS IDL**

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Boric Acid	10043-35-3	1%; English Item 1096; French Item 1170
Copper complex expressed as copper oxides	Proprietary	1%; English Item 433; French Item 578 (related to Copper, elemental) 1%; English Item 431; French Item 577 (related to copper compounds, n.o.s.)
Monoethanolamine	141-43-1	1%; English Item 1096; French Item 1170

**\*\*\* Section 16 – Other Information \*\*\***

**Label Text**

ACQ PRESSURE TREATED WOOD AND LUMBER

**CAUTION!**

WOOD DUST CAN CAUSE A FLAMMABLE OR EXPLOSION HAZARD.

WOOD DUST MAY CAUSE LUNG, UPPER RESPIRATORY TRACT, EYE AND SKIN IRRITATION. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) AND THE NATIONAL TOXICOLOGY PROGRAM (NTP) LIST WOOD DUST AS A (GROUP 1) CARCINOGEN.

**PRECAUTIONS**

Never burn treated lumber.  
Avoid dust contact with ignition source.  
Avoid frequent or prolonged inhalation of wood dust.  
Protect eyes from flying particles.  
Avoid contact from skin and wash exposed areas.  
Change protective clothing and gloves when needed.

**FIRST AID**

If inhaled, remove to fresh air. In case of contact, flush eyes and skin with water. If irritation persists, seek medical attention.

**HANDLING AND STORAGE**

Avoid frequent or prolonged inhalation of wood dust. Protect eyes from flying particles. Avoid contact with skin and wash exposed areas thoroughly. Change protective clothing and gloves when sign of contamination appear.

Wood products are combustible and, therefore, should not be subjected to temperatures exceeding the autoignition temperature. Water spray may be used to wet down wood dust generated by sawing, sanding or machining to reduce likelihood of ignition or dispersion of dust into the air.

For additional information, see the Georgia-Pacific Material Safety Data Sheet for this product.

Product Safety and Health Information  
Georgia-Pacific Corporation  
133 Peachtree Street, N.E. (30303)  
P. O. Box 105605  
Atlanta, GA 30348-5605

**Additional Resources Include:**

EPA Website Links: [www.epa.gov/pesticides/citizens/1file.htm](http://www.epa.gov/pesticides/citizens/1file.htm)  
1-800-282-0500 (1-800 Build GP) or [www.gp.com](http://www.gp.com)



**IMPORTANT:** The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Georgia-Pacific and its subsidiaries make no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. Georgia-Pacific and its subsidiaries will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

**Key/Legend:**

ACGIH	American Conference of Governmental Industrial Hygienists
C	Ceiling Limit
CAS	Chemical Abstract Services Number
CFR	Code of Federal Regulations
DOT	Department of Transportation
DSL	Domestic Substance List
EPA	Environmental Protection Agency
HEPA	High Efficiency Particulate Air
HMIS	Hazardous Material Identification System
IARC	International Agency for Research on Cancer
LCLo	Lowest Concentration in Air Resulting in Death
LC50	Concentration in Air Resulting in Death to 50% of Experimental Animals
LDLo	Lowest Dose Resulting in Death
LD50	Administered Dose Resulting in Death to 50% of Experimental Animals
NA	Not Available or Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NJTSR	New Jersey Trade Secret Registry
NSL	Non-Domestic Substance List
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PPE	Personal Protective Equipment
STEL	Short term exposure limit
TCLo	Lowest Concentration in Air Resulting in a Toxic Effect
TDLo	Lowest Dose Resulting in a Toxic Effect
TDG	Canadian Transportation of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
WHIMS	Workplace Hazardous Materials Information System

This is the end of MSDS #33Q (ACQ Pressure Treated Wood and Lumber)