

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 19110.1200

Effective date: 05.22.2016

### AQUA SEAL® - CCA

#### SECTION 1: Identification

**Material name:** AQUA SEAL® - CCA

**Product code:** AQUA SEAL® - CCA

**Recommended use of the product and restriction on use:**

Building Material - Preservative Treated Wood.

#### Manufacturer or supplier details

**Manufacturer:**

Affiliated Resources  
5 Centerpointe Drive, Suite 530  
Lake Oswego, OR 97035  
(503) 228-3802

**Supplier:**

Affiliated Resources  
5 Centerpointe Drive, Suite 530  
Lake Oswego, OR 97035  
(503) 228-3802

**Emergency telephone number:**

**Affiliated Resources**  
(503) 228-3802

#### SECTION 2: Hazard(s) identification

**GHS classification:**

Carcinogenicity, category 1A.  
Acute aquatic hazard, category 2.  
Chronic aquatic hazard, category 2.  
Eye irritation, category 2B.  
Specific target organ toxicity - single exposure, category 3, respiratory irritation.

**Label elements**

**Hazard pictograms:**



**Signal word:** Danger

**Hazard statements:**

H350 May cause cancer  
H320 Causes eye irritation  
H335 May cause respiratory irritation  
H401 Toxic to aquatic life  
H411 Toxic to aquatic life with long lasting effects

**Precautionary statements:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.

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P281 Use personal protective equipment as required.  
 P304+P340+P312 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P308+P313 If exposed or concerned: Get medical advice/attention.  
 P391 Collect spillage.  
 P403+P233 Store in a well ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents and container as instructed in Section 13.

#### Hazards not otherwise classified:

Warning! May form combustible dust concentrations in air.  
 Note: These products are not hazardous in the form they are shipped by the manufacturer but may become hazardous as the result of downstream activities (e.g. cutting and sanding) which creates small particles resulting in the hazard classification.

### SECTION 3: Composition/information on ingredients

| Identification                  | Name               | Wt. % |
|---------------------------------|--------------------|-------|
| <b>CAS number:</b><br>1303-28-2 | Arsenic pentoxide  | <3    |
| <b>CAS number:</b><br>1317-39-1 | Copper oxide       | <1.5  |
| <b>CAS number:</b><br>1308-38-9 | Trivalent Chromium | <3.5  |
| <b>CAS number:</b><br>N/A       | Wood/Wood Dust     | <85   |

### SECTION 4: First aid measures

#### Description of first aid measures

##### After inhalation:

Take precautions to ensure your own safety.  
 Remove source of exposure or move person to fresh air.  
 Get medical advice if you feel unwell or concerned.

##### After skin contact:

Rinse affected area with soap and water.  
 If symptoms develop or persist, seek medical attention.

##### After eye contact:

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open.  
 Remove contact lenses, if present and easy to do so.  
 Continue rinsing for 15-20 minutes.  
 Get medical advice if eye irritation persists.

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**After swallowing:**

No information available.

**Most important symptoms and effects, both acute and delayed**

**Acute symptoms:**

No information available.

**Delayed symptoms:**

No information available.

**Immediate medical attention and special treatment:**

No information available.

### SECTION 5: Firefighting measures

**Extinguishing media**

**Suitable extinguishing media:**

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

**Unsuitable extinguishing media:**

No information available.

**Specific hazards during fire-fighting:**

Thermal decomposition can lead to release of irritating gases and vapors.  
Ash will contain free arsenic and chromium and may be toxic.

**Special protective equipment for firefighters:**

Wear protective eye wear, gloves and clothing.  
Refer to Section 8.  
Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

**Additional information:**

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols.  
Avoid contact with skin, eyes and clothing.  
Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

### SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation.  
Ensure air handling systems are operational.

**Environmental precautions:**

Should not be released into the environment.  
Prevent from reaching drains, sewer or waterway.

**Methods and material for containment and cleaning up:**

Wear protective eye wear, gloves and clothing.  
Sweep or scoop up solid material while minimizing dust generation.  
Dispose of contents / container in accordance with local regulations.

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Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

#### Reference to other sections:

None

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only with adequate ventilation.

Minimize dust generation and accumulation.

Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Do not burn preserved wood.

#### Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

Store away from foodstuffs.

### SECTION 8: Exposure controls/personal protection

#### Components with workplace control parameters:

| Component name     | Identifier | Permissible concentration  |
|--------------------|------------|--|
| Arsenic pentoxide  | 1303-28-2  | OSHA PEL 8 hr Time-Weighted avg: 10 ug/m <sup>3</sup>                            |
| Wood/Wood Dust     | N/A        | OSHA PEL TWA 15 mg/m <sup>3</sup> (Total dust)                                   |
| Wood/Wood Dust     | N/A        | OSHA PEL TWA 5 mg/m <sup>3</sup> (Respirable fraction)                           |
| Wood/Wood Dust     | N/A        | NIOSH REL TWA 1.0 mg/m <sup>3</sup>  |
| Wood/Wood Dust     | N/A        | ACGIH TLV TWA 1.0 mg/m <sup>3</sup> (Inhalable)                                  |
| Wood/Wood Dust     | N/A        | ACGIH TLV TWA 0.5 mg/m <sup>3</sup> (Western red cedar)                          |
| Arsenic pentoxide  | 1303-28-2  | NIOSH REL Ca C 0.002 mg/m <sup>3</sup> [15-min] (Inorganic compounds, as As)     |
| Arsenic pentoxide  | 1303-28-2  | ACGIH TLV 8 Hour TWA: 0.01 mg/m <sup>3</sup>                                     |
| Arsenic pentoxide  | 1303-28-2  | NIOSH IDLH: 5mg/m <sup>3</sup>   |
| Copper oxide       | 1317-39-1  | OSHA PEL 8 hr Time-Weighted avg: 0.1mg/m <sup>3</sup> (Copper fume)              |
| Copper oxide       | 1317-39-1  | OSHA PEL 8 hr Time-Weighted avg: 1.0 mg/m <sup>3</sup> (Copper dust)             |
| Trivalent Chromium | 1308-38-9  | OSHA PEL 8 hr Time-Weighted avg: 0.5 mg/m <sup>3</sup> (Chromium(III) compounds) |

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen- deficient environment.

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Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

#### Respiratory protection:

For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. When necessary, use NIOSH-approved breathing equipment.

#### Eye protection:

Safety goggles or glasses, or appropriate eye protection.

#### Skin and body protection:

Select glove material impermeable and resistant to the substance.  
 Select glove material based on rates of diffusion and degradation.

#### General hygienic measures:

Wash hands before breaks and at the end of work.  
 Avoid contact with skin, eyes and clothing.  
 Perform routine housekeeping.  
 Wash contaminated clothing before reusing.

### SECTION 9: Physical and chemical properties

|  |                                  |  |  |
|--|----------------------------------|--|--|
| <b>Appearance (physical state, color):</b> | Yellow/green solid.              | <b>Explosion limit lower:</b><br><b>Explosion limit upper:</b> | Not determined or not available.<br>Not determined or not available. |
| <b>Odor:</b>                               | Wood odor.                       | <b>Vapor pressure:</b>   | Not determined or not available.                                     |
| <b>Odor threshold:</b>                     | Not determined or not available. | <b>Vapor density:</b>  | Not determined or not available.                                     |
| <b>pH-value:</b>                           | Not determined or not available. | <b>Relative density:</b>                                       | Not determined or not available.                                     |
| <b>Melting/Freezing point:</b>             | Not determined or not available. | <b>Solubilities:</b>   | Highly insoluble in water.   |
| <b>Boiling point/range:</b>                | Not determined or not available. | <b>Partition coefficient (n-octanol/water):</b>                | Not determined or not available.                                     |
| <b>Flash point (closed cup):</b>           | Not determined or not available. | <b>Auto/Self-ignition temperature:</b>                         | Not determined or not available.                                     |
| <b>Evaporation rate:</b>                   | Not determined or not available. | <b>Decomposition temperature:</b>                              | Not determined or not available.                                     |
| <b>Flammability (solid, gaseous):</b>      | Combustible solid                | <b>Dynamic viscosity:</b>                                      | Not determined or not available.                                     |
| <b>Density:</b>                            | As wood                          | <b>Kinematic viscosity:</b>                                    | Not determined or not available.                                     |

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#### SECTION 10: Stability and reactivity

**Reactivity:**

Nonreactive under normal conditions.

**Chemical stability:**

Stable under normal conditions of use and storage.

**Possibility of hazardous reactions:**

No dangerous reaction known under conditions of normal use.

**Conditions to avoid:**

Keep away from heat, sparks and open flame.  
Incompatible materials.

**Incompatible materials:**

Strong acids, bases, and oxidizing agents.

**Hazardous decomposition products:**

Toxic vapors from wood and preservative may be given off in a fire. Ash will contain free arsenic and chromium and may be toxic.

#### SECTION 11: Toxicological information

**Exposure routes:**

No information available.

**Acute toxicity:**

**Oral:**

Arsenic pentoxide: LD50 Rat: 8 mg/kg [Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 302].

Copper oxide: LD50 Rat: 0.47 g/kg [Budavari, S. (ed.). The Merck Index - Encyclopedia of Chemicals, Drugs and Biologicals. Rahway, NJ: Merck and Co., Inc., 1989., p. 416].

**Skin corrosion/irritation:**

No information available.

**Serious eye damage/irritation:**

Wood/Wood Dust: Wood dust causes eye irritation.

**Respiratory or skin sensitization:**

No information available.

**Carcinogenicity:**

**Arsenic pentoxide:** ACGIH: A1: Confirmed human carcinogen.

Wood dust is listed as carcinogenic by NTP, OSHA, and IARC.

**IARC (International Agency for Research on Cancer):**

Group 1 - Carcinogenic to humans: Arsenic pentoxide.

Group 3 - Not classifiable as to its carcinogenicity to humans: Trivalent Chromium.

Group 1 - Carcinogenic to humans: Wood/Wood Dust.

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#### **NTP (National Toxicology Program):**

Known to be human carcinogens: Wood/Wood Dust.

#### **Germ cell mutagenicity:**

No information available.

#### **Reproductive toxicity:**

No information available.

#### **STOT-single and repeated exposure:**

Wood/Wood Dust : Component affects the respiratory system.

#### **Aspiration toxicity:**

No information available.

#### **Additional toxicological information**

No information available.

### SECTION 12: Ecological information

#### **Ecotoxicity:**

Arsenic pentoxide: Fish, LC50; Species: Morone saxatilis (Striped bass) age 63 days; Conditions: freshwater, static, 20 deg C, hardness 285 mg/L CaCO<sub>3</sub>; Concentration: 40500 ug/L for 96 hr.

Arsenic pentoxide: Fish, LC50; Species: Oncorhynchus mykiss (Rainbow trout); Conditions: freshwater, static, 20 deg C, hardness 285 mg/L CaCO<sub>3</sub>; Concentration: 28000 ug/L for 96 hr.

Copper oxide: Fish, LC50 values ranged between 22.4 µg/L (weight 1.1 g, pH 6, hardness 32.0 mg/L CaCO<sub>3</sub>) and 516 µg/L (weight 1.8 g, pH 8, hardness 371 mg/L CaCO<sub>3</sub>).

#### **Persistence and degradability:**

No information available.

#### **Bioaccumulative potential:**

No information available.

#### **Mobility in soil:**

No information available.

#### **Other adverse effects:**

No information available.

### SECTION 13: Disposal considerations

#### **Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11). DO NOT BURN! Ash may be toxic and hazardous waste. Wood and wood dust is not considered hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261.

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### SECTION 14: Transportation information

**Land transport:**

**DOT (49 CFR) transport**

|                                      |               |
|--------------------------------------|---------------|
| <b>UN Number:</b>                    | Not regulated |
| <b>UN Proper shipping name:</b>      | Not regulated |
| <b>UN Transport hazard classes:</b>  | Not Regulated |
| <b>Packing group:</b>                | Not regulated |
| <b>Danger label:</b>                 | None          |
| <b>Environmental hazards:</b>        | No            |
| <b>Special precautions for user:</b> | None          |

**Air transport:**

**IATA-DGR**

|                                      |               |
|--------------------------------------|---------------|
| <b>UN Number:</b>                    | Not regulated |
| <b>UN Proper shipping name:</b>      | Not regulated |
| <b>UN Transport hazard classes:</b>  | Not Regulated |
| <b>Packing group:</b>                | Not regulated |
| <b>Danger label:</b>                 | None          |
| <b>Environmental hazards:</b>        | No            |
| <b>Special precautions for user:</b> | None          |

**Sea transport:**

**IMDG**

|  |               |
|--|---------------|
| <b>UN Number:</b>  | Not regulated |
| <b>UN Proper shipping name:</b>  | Not regulated |
| <b>UN Transport hazard classes:</b>  | Not Regulated |
| <b>Packing group:</b>  | Not regulated |
| <b>Danger label:</b>   | None          |
| <b>EMS code:</b>   | None          |
| <b>Environmental hazards:</b>  | No            |
| <b>Special precautions for user:</b>   | None          |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> Not applicable |               |



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### SECTION 15: Regulatory information

#### North American

**SARA Section 311/312 (Specific toxic chemical listings):**

Not classified.

**SARA Section 302 (Extremely hazardous substances):**

None of the ingredients are listed.

**SARA Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

**TSCA (Toxic Substances Control Act):**

One or more ingredients are not listed.

**TSCA Rules and Orders:**

Not applicable.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

1303-28-2 Arsenic pentoxide: 1.

**RCRA (hazardous waste code):**

1303-28-2 Arsenic pentoxide.

**Proposition 65 (California):**

**Chemicals known to cause cancer:**

N/A Wood/Wood Dust.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** Title 22 California Code of Regulations requires that a clear and reasonable warning be given before exposure to chemicals listed by the State of California as causing cancer or reproductive toxicity. Wood dust and Formaldehyde is on California's list of chemicals known to the State to cause cancer and methanol is on California's list known to the State to cause birth defects or other reproductive harm.

**Prop 65 WARNING:**

***Drilling, sawing, sanding or machining wood products generates wood dust and other substances known to the State of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask or other safeguards for personal protection. Wood products emit chemicals known to the State of California to cause birth defects or other reproductive harm.***

#### Canada

**DSL (Canadian Domestic Substances List):**

One or more ingredients are not listed.

### SECTION 16: Other information

**Abbreviations and Acronyms:** None

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility

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to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

**NFPA:** 2-1-0

**HMIS:** 2-1-0