Arch Wood Protection, Inc.

# MATERIAL SAFETY DATA

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| FOR ANY EMERGENCY, CALL 24 HOURS/7 DAYS: | 1-800-654-6911 |
| FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: | 1-800-424-9300 |
| MSDS QUESTIONS & REQUESTS, CALL MSDS CONSULTATION LINE: | 1-800-511-MSDS |

**PRODUCT NAME: Wolmanac® 50% or 60% Concentrate**

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 01-16-2005 SUPERCEDES: 01-16-2005
MSDS NO: 04670.0001 - 198070

**Manufacturer: Arch Wood Protection, Inc., 3941 Bonsal Road, Conley, GA 30288**

**General Use:** Restricted-use pesticide for wood preservation **EPA Reg #** 62190-2, 62190-14

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| **ADDITIONAL EMERGENCY TELEPHONE NUMBERS:** | *CANUTEC: 1-613-996-6666 |
| | *Use only during transportation emergencies |

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENTS | PERCENT | CAS # | EXPOSURE LIMITS (mg/m$^3$) | | |
|---|---|---|---|---|---|
| | | | OSHA-PEL | ACGIH-TLV | ACGIH-STEL |
| Chromic Acid | 23.75 - 28.5 | 7738-94-5 | (as Cr) 0.1 (Ceiling) | 0.05 | None |
| Arsenic Acid | 56.00 - 60.0 | 7778-39-4 | (as As)0.01 | 0.01 | None |
| Copper Oxide | 9.00 - 11.1 | 1317-38-0 | (as Cu) 1.0 (dusts/mists) | 1.0 (dusts/mists) | None |

## 3. HAZARDS IDENTIFICATION

**Inhalation**: Corrosive to the upper airways when inhaled in concentrations exceeding recommended exposure limits. Short-term overexposure may cause muscle spasms, dizziness and collapse. Prolonged overexposure may cause perforation of nasal septum, hoarseness of the voice, liver injury and red patches on the skin. Chronic arsenic exposure may cause nervous system damage.
**Eye Contact**: Corrosive to the eyes.
**Skin Contact**: Severe irritation to the skin.
**Ingestion**: Corrosive. Can cause internal hemorrhage and death if consumed as a liquid.
Toxic by Ingestion ; Moderately toxic by Dermal Contact.

## 4. FIRST AID MEASURES

**Inhalation:** Remove from exposure. If severe breathing difficulty should arise immediately seek medical aid. If breathing has stopped, administer artificial respiration or oxygen.
**Eye Contact:** Exposed eyes should be flushed with large amounts of saline or water for at least 15 minutes, (greater than 1 liter per eye, minimum) using low pressure, taking care that the eyes remain

open during this entire procedure. If wearing contact lenses, immediately flush eyes with water for a short period prior to removing contacts, then resume flushing procedures as described above. Immediately seek medical aid.
**Skin Contact**: Flush exposed skin with large amounts of water. Then use soap and water to clean area. Remove contaminated clothing. Seek medical aid if severe irritation develops.
**Ingestion:** Following ingestion, if the patient can swallow without difficulty, administer small quantities of water and/or demulcents (such as milk) to dilute the chromic acid. Do not administer anything by mouth if difficulty with swallowing exists. DO NOT induce vomiting. Seek medical aid immediately. Do not attempt to give anything to an unconscious person. Call a physician or poison center at (800) 837-0496 (Outside the US call 1-404-616-9000.)

## 5. FIRE FIGHTING MEASURES

**Flash Point**NA
**Auto-ignition** NA

**Lower Explosive Limit** NA
**Upper Explosive Limit** NA

**Extinguishing Agents:** Not applicable

**Fire-Fighting Procedures**: Fire from a separate fuel source may be intense enough to cause thermal decomposition releasing toxic fumes and/or gases. Wear complete fire service protective equipment, including full-face NIOSH/NFPA – approved self-contained breathing apparatus.
**Fire and Explosion Hazard:** This product will not burn. Closed containers may explode (due to the build up of steam pressure) when exposed to extreme heat. Water could evaporate to expose a combustible residue. Under fire conditions the product may emit irritants, toxic gas and/or fumes. May cause fire on contact with combustible materials (e.g. oil-stained rags or sawdust).

## 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** (Product): Stop leak if no risk involved. Contain spill by using an inert non-biodegradable absorbent material (e.g., kitty litter or synthetic absorbents). Shovel into an appropriate container and dispose of waste in accordance with federal, state and local regulations. If material can be recovered, use a vacuum system designed for liquid recovery. If a reportable quantity (RQ) is released into the environment, report to the National Response Center (1-800-424-8802), the State Emergency Planning Commission (SERC), the Local Emergency Planning Committee (LEPC) and/or your local fire department depending on availability.
**Reportable Quantities:** If <1/2 gallon (7.5 lbs.) as CCA 60% or <2/3 gallon (9 lbs.) as CCA 50% is released into the environment, the arsenic RQ of one (1) pound will be exceeded.
**Waste Disposal:** Dispose of waste in accordance with Federal and State Hazardous Waste regulations. Place in tightly sealed, labeled containers. This product is an EPA characteristic waste as D004 and D007 in 40 CFR 261.

## 7. HANDLING AND STORAGE

**Storage Conditions:** Well ventilated area. Maintain good housekeeping. Keep properly labeled containers closed when not in use. Protect from physical damage.
**Caution:** Do not wear contaminated clothing. Wash hands thoroughly before eating, drinking, using tobacco products, and/or using restrooms.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory Protection:**
**Eye Protection:** Splash-proof chemical goggles and face shield should be worn wherever splash hazards exist.

**Skin/Foot Protection:** PVC, polyethylene or neoprene gloves are recommended. Wear long sleeves, pants and leather or rubber shoes. Coveralls or aprons if needed.
**Ventilation:** General ventilation is required.
**Other Protective Equipment:** Facilities storing or utilizing this material must be equipped with an emergency eyewash and safety shower station within easy access for quick drenching or flushing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|---|---|---|---|---|
| **Appearance** | Dk. Brown liq. | **Solubility in Water** | Soluble | **Specific Gravity (Water =1)** | 1.64-1.80 |
| **Odor** | Metallic | **pH** | <2 | **Boiling Point** | 107C |
| **Physical State** | Liquid | **Vapor Pressure** | NA | **Freezing Point** | -30C |

## 10. STABILITY AND REACTIVITY

**Conditions contributing to instability:** None.
**Incompatibilities:** Alkaline products, zinc, galvanized metal, aluminum, organic combustible materials (such as oily rags or sawdust)
**Hazardous Reactions/Decomposition/Combustion Products:** Chromium, copper and arsenic fumes
**Hazardous Polymerization:** Does not occur

## 11. TOXICOLOGICAL INFORMATION

**Oral Toxicity:** LD50= 188-192 mg/kg (rat – CCA Concentrate 65%)
**Dermal Toxicity:** LD50= 519.9 mg/kg (rabbit – CCA Concentrate 65%)

Cancers in humans have followed from long term consumption of Fowler's Solution, a medicinal trivalent arsenical; inhalation and skin contact with inorganic trivalent arsenical sheep-dust; the combined inhalation of arsenic trioxide (trivalent arsenical), sulfur dioxide, and other particulates from ore smelting in arsenic trioxide production; and occupational exposure to nonwater-soluble hexavalent chromium.

## 12. ECOLOGICAL INFORMATION

Acute 96-hour LC50= 90.3 ppm
(Bluegill Sunfish – CCA Concentrate 40%)

Acute 96-hour LC50= 0.84 ppm
(Rainbow Trout – CCA Concentrate 40%)

8-day dietary LD50= >4640 ppm
(Mallard Ducks – CCA Concentrate 40%)

8-day dietary LD50= 920 ppm
(Bobwhite Quail – CCA Concentrate 40%)

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.
**NOTE:** Arsenic, Chrome and Copper occur naturally in soil.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Guidance:** Dispose of waste in accordance with Federal and State Hazardous Waste regulations. Place in tightly sealed, labeled containers. This product is an EPA characteristic waste as D004 and D007 in 40 CFR 261.

## 14. TRANSPORT INFORMATION

**DOT Haz. Mat. Classification:** Arsenical Pesticide, Liquid, Toxic, (Arsenic Acid, Chromic Acid), 6.1, UN 2994, II
**North American Emergency Response Guide #** 151

## 15. REGULATORY INFORMATION

**Canada:** Regulated under WHMIS.
**CERCLA/SARA (40 CFR 302.4):** Regulated under CERCLA/SARA . Chromic acid and arsenic acid have reportable quantities of 10 pounds and 1 pound respectively under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).
**SARA 311/312 (40 CFR 370):** This product is an OSHA hazardous material under 29 CFR 1910.1200, therefore, it is regulated under the Superfund Amendments and Reauthorization Act (SARA) Sections 311 and 312. A facility must report chemical storage quantities that equal or exceed 10,000 pounds anytime during the reporting year to the appropriate state and local agencies.
**SARA 313 (40 CFR 372):** This product requires a Toxic Release Inventory reporting for individual material uses of 25,000 pounds or more. Reporting is under Copper Compounds, Chromium Compounds and Arsenic Compounds.
**RCRA (40 CFR 261):** This product is an EPA characteristic waste as D004 and D007 in 40 CFR 261.
**OSHA (29 CFR 1910.1200):** This product is regulated under the Hazard Communication Standard
**FIFRA (40 CFR 152-186):** This product is subject to regulation under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from the Toxic Substances Control Act (TSCA) Inventory listing requirements. This product is registered as a restricted-use pesticide. Users must be certified (or licensed) applicators or operate under the direct supervision of a certified applicator.

**California Proposition 65:** This product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. (This statement issued in accordance with California Proposition 65).
**NFPA:** 3-Health, 0-Flammability, 0-Reactivity

ABBREVIATIONS

| | | | |
|---|---|---|---|
| **OSHA** | Occupational Safety and Health Administration | **TLV** | Threshold Limit Value |
| **NFPA** | National Fire Protection Association | **STEL** | Short-Term Exposure Limit |
| **FIFRA** | Federal Insecticide, Fungicide and Rodenticide Act | **RCRA** | Resource Conservation and Recovery Act |
| **CERCLA** | Comprehensive Environmental Response, Compensation, and Liability Act | **ACGIH** | American Conference of Governmental Industrial Hygienists |
| **SARA** | Superfund Authorization and Reauthorization Act | **NIOSH** | National Institute of Occupational Safety and Health |
| **PEL** | Permissible Exposure Limit | **TSCA** | Toxic Substances Control Act |
| **DOT** | Department of Transportation | **IARC** | International Agency for Research on Cancer |
| **NTP** | National Toxicology Program | **IBC** | International Building Code |
| **CFR** | Code of Federal Regulations | **mg/m3** | Milligrams per cubic meter |
| **CWA** | Clean Water Act | **CAA** | Clean Air Act |
| **CAS** | Chemical Abstracts Service | | |

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION INTHIS MSDS SHOULD BE PROVIDEDTO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH WOOD PROTECTION, INC BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH WOOD PROTECTION,

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