



Arch Wood Protection, Inc.

**MATERIAL
SAFETY DATA**

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
FOR CANADIAN TRANSPORTATION ACCIDENTS, CALL CANUTEC:	1-613-996-6666

PRODUCT NAME: WOLMANAC® CONCENTRATE 50%
WOLMANAC® CONCENTRATE 60%

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Revision Date: 05/31/2006

Manufacturer: Arch Wood Protection, Inc., 1955 Lake Park Drive, Smyrna, GA 30080

General Use: Restricted-use pesticide for wood preservation
EPA Reg # 62190-2, 62190-14, PCP Reg # 21226

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 immediately.

5. FIRE FIGHTING MEASURES

Flash Point	NA	Lower Explosive Limit	NA
Auto-ignition	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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Wear a NIOSH approved respirator if airborne concentrations exceed the exposure limits. Use a full-face air-purifying respirator equipped with acid-gas cartridges and a P100 pre-filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

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: Use local exhaust ventilation to maintain levels to below the exposure limits.

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

Appearance	Dk. Brown liq.	Solubility in Water	Soluble	Specific Gravity	1.64-1.80
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Odor	Metallic	pH	<2	(Water =1) 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%)

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

Acute 96-hour LC50= 0.84 ppm
(Rainbow Trout – 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, III

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). 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.

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): 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.

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

16. OTHER INFORMATION

Sections Revised: 14

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 IN THIS MSDS SHOULD BE PROVIDED TO 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, INC. MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.