



FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:	1-800-654-6911 (OUTSIDE USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:	1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)
FOR ALL MSDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

PRODUCT NAME: **Chromated Copper Arsenate (CCA)Treating Solution**

1. PRODUCT AND COMPANY IDENTIFICATION

Arch Wood Protection, Inc. 5660 New Northside Drive, NW Suite 1100 Atlanta, GA 30328	REVISION DATE:	08/25/2009
	SUPERCEDES:	03/31/2009
	MSDS Number:	000000009638
	SYNONYMS:	None
	CHEMICAL FAMILY:	Not Applicable/Mixture
	DESCRIPTION / USE:	Restricted Use - Wood Preservative
FORMULA:	None established	

2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:	Corrosive to eyes, Carcinogen, Possible skin sensitizer
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Routes of Entry:	Inhalation, ingestion, eye contact
Chemical Interactions:	No known or reported interactions.
Medical Conditions Aggravated:	Respiratory diseases including asthma and bronchitis, Pre-existing liver diseases, Pre-existing kidney disease, Pre-existing eye disease

Human Threshold Response Data

Odor Threshold	Not established for product.
Irritation Threshold	Not established for product.



Hazardous Materials Identification System / National Fire Protection Association Classifications

<u>Hazard Ratings :</u>	<u>Health</u>	<u>Flammability</u>	<u>Physical / Instability</u>	<u>PPI / Special hazard.</u>
HMIS	3*	0	0	
NFPA	3	0	0	

Immediate (Acute) Health Effects

Inhalation Toxicity:	May be harmful if inhaled. Exposure to high concentrations may result in alterations to the liver.
Skin Toxicity:	Not expected to be irritating. Not expected to be toxic from dermal contact.
Eye Toxicity:	Corrosive. Burns can occur following exposure. Direct contact may cause impairment of vision, corneal damage and/or blindness. Rinsing of the eye should take place immediately.
Ingestion Toxicity:	Moderately toxic if swallowed. Harmful if swallowed. Exposure to large quantities of this material may result in liver and kidney damage, based on animal studies. Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration or perforation. Aspiration may lead to lung damage.
Acute Target Organ Toxicity:	Corrosive to eyes

Prolonged (Chronic) Health Effects

Carcinogenicity:	The International Agency for Research on Cancer (IARC) has classified a component or components of this product as a Group 1 substance, Carcinogenic to Humans.
Reproductive and Developmental Toxicity:	No reproductive or developmental risk to humans is expected from exposure to this product.
Inhalation:	There are no known or reported effects from chronic exposure except for effects similar to those experienced from acute exposure.
Skin Contact:	There are no known or reported effects from chronic exposure.
Skin Absorption:	There are no known or reported effects from chronic exposure.
Ingestion:	There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure. The acute corrosivity of this product, makes chronic ingestion of significant amounts unlikely.
Eye Contact:	Prolonged contact may result in permanent damage. Corneal involvement or visual impairment is expected.
Sensitization:	May cause allergic skin sensitization in some individuals.
Chronic Target Organ Toxicity:	This product has not been tested. However, chronic (repeated) exposures to this product would be expected to produce similar effects as seen from acute exposures.
Supplemental Health Hazard Information :	No additional health information available.



3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
CHROMIC ACID (CRO3)	7738-94-5	- 5
COPPER OXIDE	1317-38-0	- 5
ARSENIC ACID	7778-39-4	- 5

4. FIRST AID MEASURES

General Advice:	Call a poison control center or doctor for treatment advice. For 24-hour emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
Inhalation:	IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Skin Contact:	IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Eye Contact:	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 center or doctor for treatment advice.
Ingestion:	IF SWALLOWED: Call a poison control center 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 center or doctor. Do not give anything by mouth to an unconscious person.
Notes to Physician:	Massive overexposure to chromic acid could lead to kidney failure and death. Death has been avoided in several such cases through the use of early renal dialysis. An effective treatment has been shown to be administration of ascorbic acid by mouth or intravenously. Probable mucosal damage may contraindicate the use of gastric lavage.



5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA): Product is not known to be flammable, combustible, pyrophoric or explosive.

Flammable Properties

Flash Point: Not applicable
Autoignition Temperature: Not applicable
Fire / Explosion Hazards: Material will not ignite or burn.
Extinguishing Media: Not Applicable. - Choose extinguishing media suitable for surrounding materials.
Fire Fighting Instructions: Response to this material requires the use of a full encapsulated suit and full-face (NIOSH approved) self-contained breathing apparatus (SCBA). Use water to cool containers.
Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Upper Flammable / Explosive Limit, % in air: No data.
Lower Flammable / Explosive Limit, % in air: No data.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations: Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus.

Spill Mitigation Procedures

Air Release: Hazardous concentrations in air may be found in local spill area and immediately downwind. Vapors may be suppressed by the use of water fog. Contain all liquids for treatment or disposal.
Water Release: This material is soluble in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. Contain all liquids for treatment or disposal.
Land Release: Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Contain all liquids for treatment or disposal.
Additional Spill Information : Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.



7. HANDLING AND STORAGE

Handling: An eye wash and safety shower should be provided in the immediate work area. Avoid breathing dust, mist, vapor or gas. Avoid contact with eyes, skin, and clothing. Use only in a well-ventilated area. Wash hands thoroughly before eating, drinking, using tobacco products, and/or using restrooms.

Storage: Keep container closed when not in use.

Incompatible Materials for Storage: Bases galvanized metal organic materials with high surface area such as rags, cotton waste, sawdust, etc. zinc aluminum

Empty Container Warning: Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible.

Respirator Type : A NIOSH approved air purifying respirator with acid gas cartridge and P100 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. A NIOSH approved full-face or half-face respirator in combination with chemical goggles.

Skin Protection : Wear impervious gloves, boots and apron to avoid skin contact. A full impervious suit is recommended if exposure is possible to a large portion of the body.

Eye Protection: Use chemical goggles.

Protective Clothing Type: Polyvinyl chloride, Polyethylene, Butyl rubber

General Protective Measures: An eye wash and safety shower should be provided in the immediate work area. OSHA's Inorganic Acid and Hexavalent Chromium Standards do not apply to workers applying this pesticide in accordance with the label instructions.

Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
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CHROMIC ACID (CRO3)	7738-94-5	ZUS_OSHAP1	0.005 mg/m3 TWA See 1910.1026. See Table Z-2 for the exposure Table Z-2 for the exposure limit for any operations or sectors where the exposure limit in 1910.1026 is stayed or are otherwise not in effect.
CHROMIC ACID (CRO3)	7738-94-5	ZUS_OSHAP2	0.001 mg/m3 Calculated as CrO3 CEIL This standard applies to any operations or sectors for which the exposure limit in the Chromium (VI) standard, Sec. 1910.1026, is stayed or is otherwise not in effect., Z37.7-1971
CHROMIC ACID (CRO3)	7738-94-5	ZUS_OSHAPO	0.1 mg/m3 Calculated as CrO3 CEIL See Table Z-2.
CHROMIC ACID (CRO3)	7738-94-5	ZUS_ACGIH	0.05 mg/m3 Calculated as Cr TWA soluble NOC = not otherwise classified., 1994-1995 Adoption, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Substances for which the TLV is higher than the OSHA Permissible Exposure Limit (PEL) and/or the NIOSH Recommended Exposure Limit (REL). See CFR 58(124) :36338-33351, June 30, 1993, for revised OSHA PEL., Substance identified by other sources as a suspected or confirmed human carcinogen., Refers to Appendix A -- Carcinogens.
CHROMIC ACID (CRO3)	7738-94-5	ZUS_OSHAP2	1 mg/10m3 CEIL
CHROMIC ACID (CRO3)	7738-94-5	ZUS_OSHAPO	
CHROMIC ACID (CRO3)	7738-94-5	NIOSH-IDLH	250 mg/m3
COPPER OXIDE	1317-38-0	NIOSH-IDLH	100 mg/m3
ARSENIC ACID	7778-39-4	ZUS_OSHAP1	0.01 mg/m3 Calculated as As TWA



ARSENIC ACID	7778-39-4	ZUS_OSHAPO	0.01 mg/m3 Calculated as As TWA Sec. 1910.1018 Inorganic arsenic.
ARSENIC ACID	7778-39-4	ZUS_ACGIH	0.01 mg/m3 Calculated as As TWA Substances for which there is a Biological Exposure Index or Indices (see BEL® section), Substances for which the TLV is higher than the OSHA Permissible Exposure Limit (PEL) and/or the NIOSH Recommended Exposure Limit (REL). See CFR 58(124) :36338-33351, June 30, 1993, for revised OSHA PEL., Substance identified by other sources as a suspected or confirmed human carcinogen., Refers to Appendix A -- Carcinogens.
ARSENIC ACID	7778-39-4	NIOSH-IDLH	5 mg/m3

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Form	Free flowing
Color:	light brown
Odor:	Metallic
Molecular Weight:	None established
Specific Gravity :	1.04
pH :	< 2.0
Boiling Point:	100 DEG°C / 212 DEG°F
Freezing Point:	-30 DEG°C / -22 DEG°F
Melting Point:	Not applicable
Density:	approx.8.7
Vapor Pressure:	Not applicable
Vapor Density:	not applicable
Viscosity:	No data
Fat Solubility:	No data
Solubility in Water:	soluble
Partition coefficient n-octanol/water:	No data.
Evaporation Rate:	No data
Oxidizing:	The substance has no oxidizing properties
Volatiles, % by vol.:	Water
VOC Content	Not applicable
HAP Content	No data



10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions. Product will not undergo hazardous polymerization.
Conditions to Avoid:	High temperatures
Chemical Incompatibility:	Bases, galvanized metal, zinc, aluminum, Organic materials with high surface area such as rags, cotton waste, sawdust, etc.
Hazardous Decomposition Products:	Chromium, arsenic, and copper fumes
Decomposition Temperature:	No data

11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

CHROMIC ACID (CRO3)	LD50 = 80 mg/kg Rat
COPPER OXIDE	LD50 (97.6% Active Ingredient) > 5,050 mg/kg Rat
ARSENIC ACID	LD50 (75% Active Ingredient) = 134 mg/kg Rat

Dermal LD50 value:

CHROMIC ACID (CRO3)	No data
COPPER OXIDE	LD50 (97.6% Active Ingredient) > 2,020 mg/kg Rabbit
ARSENIC ACID	No data

Inhalation LC50 value:

CHROMIC ACID (CRO3)	No data
COPPER OXIDE	Inhalation LC50 4 h (97.6% Active Ingredient) > 2.08 MG/L Rat
ARSENIC ACID	Inhalation LC50 1 h (aerosol), (Whole-body), (75% Active Ingredient) = 1.16 MG/L Rat
ARSENIC ACID	Inhalation LC50 4 h (aerosol), (Whole-body), (75% Active Ingredient) = 0.29 MG/L Rat

Product Animal Toxicity

Oral LD50 value:	LD50 Believed to be approximately 1,200 mg/kg rat
Dermal LD50 value:	LD50 Believed to be approximately 3,400 mg/kg rabbit
Inhalation LC50 value:	Inhalation LC50 no data available

Skin Irritation:	Not expected to be irritating.
Eye Irritation:	This material is expected to be corrosive.
Skin Sensitization:	May cause allergic skin sensitization in some individuals.

Acute Toxicity:	Corrosive to eyes
Subchronic / Chronic Toxicity:	This product has not been tested. However, chronic (repeated) exposures to this product would be expected to produce similar effects as seen from acute exposures.

Reproductive and Developmental Toxicity:	At high doses significant maternal toxicity and fetotoxicity was observed. However, no developmental or teratogenic effects were observed.
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ARSENIC ACID

This product has been tested in laboratory animals and was found to cause developmental toxicity only at maternally toxic doses.

Mutagenicity: Not known or reported to be mutagenic.

CHROMIC ACID (CRO3)

Not known or reported to be mutagenic.

Carcinogenicity: The International Agency for Research on Cancer (IARC) has classified a component or components of this product as a Group 1 substance, Carcinogenic to Humans.

CHROMIC ACID (CRO3)

Cancers in humans have followed from long term occupational exposure to nonwater-soluble hexavalent chromium. Insoluble forms of hexavalent chromium have been shown to be a human carcinogen by inhalation. Other routes of exposure are not classifiable as to human carcinogenicity.

ARSENIC ACID

The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 1 substance, Carcinogenic to Humans.

12. ECOLOGICAL INFORMATION

Overview: Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems., Do not discharge effluent containing this product into lakes, ponds, streams, 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.

Ecological Toxicity Values for: COPPER OXIDE

Mosquito fish - (nominal, static). 96 h LC50 > 56,000 mg/l

13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.



Waste Disposal Summary : If this product becomes a waste, it will be a hazardous waste.

Disposal Methods : As a hazardous liquid waste it must be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : D002, D004, D007

14. TRANSPORT INFORMATION

Land (US DOT): Not Regulated NOT REGULATED AS A DOT HAZARDOUS MATERIAL
 Water (IMDG): NOT REGULATED AS A HAZARDOUS MATERIAL,

Flash Point: Not applicable

Air (IATA): NOT REGULATED AS A HAZARDOUS MATERIAL,
 Emergency Response Guide Number: Not applicable

15. REGULATORY INFORMATION

UNITED STATES:

Toxic Substances Control Act (TSCA): This product is a diluted mixture of one or more Registered Pesticides and is regulated by FIFRA (Canada-PMRA).

EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals (40 CFR 180): Not registered in the US under FIFRA.

Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):
 Health Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
 Physical None

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS_SAR302 TPQ (threshold planning quantity) None established

Reportable Quantity (49 CFR 172.101, Appendix):

ZUS_CERCLA Reportable quantity CHROMIC ACID
 Value: 10lbs
 COPPER AND COMPOUNDS
 Value:
 Arsenic acid H3AsO4
 Value: 1lbs

ZUS_SAR302 Reportable quantity None established



Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS_SAR313 De minimis concentration Copper compounds (Non-carcinogenic) Value: 1% Copper Compounds Value: < 1% by weight Arsenic compounds (Carcinogenic) Value: 0.1%

Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC None established

Clean Air Act VOC Section 111:

CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112:

ZUS_CAAHAP None established

ZUS_CAAHRP None established

CAA AP None established

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

Table with 2 columns: CAS #, COMPONENT NAME. Rows include 7738-94-5 CHROMIC ACID (CRO3), 1317-38-0 COPPER OXIDE, 7778-39-4 ARSENIC ACID.

ZUSPA_RTK

Pennsylvania: Hazardous substance list 1989-08-11 CHROMIC ACID Environmental hazard

Pennsylvania: Hazardous substance list 1990-01-01 COPPER COMPOUNDS Environmental hazard, hazardous substance

Pennsylvania: Hazardous substance list 1989-08-11 ARSENIC ACID Environmental hazard



New Jersey:

CAS #	COMPONENT NAME
7738-94-5	CHROMIC ACID (CRO3)
1317-38-0	COPPER OXIDE
7778-39-4	ARSENIC ACID

ZUSNJ_RTK

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

CHROMIC ACID CHROMIUM(6+) ACID

Special Health Hazard - Carcinogen, Special Health Hazard - Corrosive

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

1989-12-01

COPPER compounds

hazardous substance

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

1989-12-01

COPPER, all inorganic compounds of

hazardous substance

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

COPPER COMPOUNDS

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

ARSENIC ACID ARSENIC ACID (H3AsO4)

Special Health Hazard - Carcinogen

Massachusetts:

CAS #	COMPONENT NAME
7738-94-5	CHROMIC ACID (CRO3)
7778-39-4	ARSENIC ACID

ZUSMA_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

CHROMIC ACID

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

ARSENIC ACID

California Proposition 65:

CAS #	COMPONENT NAME
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7738-94-5	CHROMIC ACID (CRO3)
7778-39-4	ARSENIC ACID

ZUSCA_P65

California Proposition 65. Safe drinking water and toxic enforcement act.
Chromium (hexavalent compounds)
Carcinogen

California Proposition 65. Safe drinking water and toxic enforcement act.
Arsenic (inorganic arsenic compounds)
Carcinogen

WHMIS Hazard Classification:
None established

16. OTHER INFORMATION

MSDS REVISION STATUS : Revised to meet the ANSI standard of 16 sections
SECTIONS REVISED: 1
Major References : Available upon request.

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 CHEMICALS 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 CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .