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|---|--|
| 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: **WOLMANAC® Concentrate 60%**  
 EPA Registration Number: 62190-14, Canadian Registration Number: 21226

### 1. PRODUCT AND COMPANY IDENTIFICATION

|   |                    |                                    |
|---|--------------------|------------------------------------|
| Arch Wood Protection, Inc.<br>5660 New Northside Drive, NW<br>Suite 1100<br>Atlanta, GA 30328 | REVISION DATE:     | 10/13/2009                         |
|   | SUPERCEDES:        | 04/02/2009                         |
|   | MSDS Number:       | 000000001388                       |
|   | SYNONYMS:          | Chromated Copper Arsenate          |
|   | CHEMICAL FAMILY:   | Inorganic acid                     |
|   | DESCRIPTION / USE: | Restricted Use - Wood Preservative |
|   | FORMULA:           | None established                   |

### 2. HAZARDS IDENTIFICATION

|                             |  |
|-----------------------------|--|
| OSHA Hazard Classification: | <b>Toxic by ingestion, dermal contact, and inhalation, Corrosive to eyes, skin and mucous membranes, Lung toxin, Carcinogen., Possible skin sensitizer</b> |
|-----------------------------|--|

|                                |   |
|--------------------------------|---|
| Routes of Entry:               | Inhalation, skin, eyes, ingestion   |
| Chemical Interactions:         | No known or reported interactions.  |
| Medical Conditions Aggravated: | Respiratory diseases including asthma and bronchitis, Preexisting skin, liver, kidney, or eye disorders may be aggravated by overexposure |

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:         | Toxic by inhalation. Exposure to high concentrations may result in alterations to the liver. Inhalation of this material may produce severe irritating and/or corrosive effects to the nose, mouth, throat, and respiratory tract. It may cause burns which can result in symptoms which may include coughing, wheezing, choking, shortness of breath, chest pain, and impairment of lung function. Inhalation of high concentrations can also result in permanent lung damage. |
| Skin Toxicity:               | Toxic if absorbed through the skin. Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling, and scab formation. Prolonged skin exposure may cause permanent damage.  |
| 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:          | Toxic 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: | This product is corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and respiratory tract.   |

**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:                              | Prolonged or repeated inhalation may cause lung damage. May cause: Dental erosion   |
| Skin Contact:                            | Prolonged or repeated exposure may cause extensive permanent skin damage.   |
| Skin Absorption:                         | Prolonged or repeated exposure, may result in toxic amounts being absorbed through the skin.  |
| 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: Chronic overexposure to this product may cause damage to the skin, respiratory tract, teeth and eyes.  
Supplemental Health Hazard Information : No additional health information available.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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| <u>CAS OR CHEMICAL NAME</u> | <u>CAS #</u> | <u>% RANGE</u> |
|-----------------------------|--------------|----------------|
| CHROMIC ACID (CRO3)         | 7738-94-5    | - 28.50        |
| COPPER OXIDE                | 1317-38-0    | - 11.1         |
| ARSENIC ACID                | 7778-39-4    | - 60.00        |

Product (CCA Concentrate 60%)

### 4. FIRST AID MEASURES

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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

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

### Flammable Properties

Flash Point: Not applicable  
Autoignition Temperature: Not applicable  
Fire / Explosion Hazards: Material will not ignite or burn. Closed containers may explode (due to the build up of steam pressure) when exposed to extreme heat. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.  
Extinguishing Media: 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: Not applicable  
Lower Flammable / Explosive Limit, % in air: Not applicable

## 6. ACCIDENTAL RELEASE MEASURES

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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 liquid for treatment and/or disposal as a (potential) hazardous waste.  
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 liquid for treatment and/or disposal as a (potential) hazardous waste.



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. Do not place spill materials back in their original containers. Contain all liquid for treatment and/or disposal as a (potential) hazardous waste.

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

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Handling: Handle in accord with label precautions. An eye wash and safety shower should be provided in the immediate work area. Avoid breathing mist or vapor. Do not take internally. Avoid contact with skin, eyes and clothing by wearing proper protective equipment. Upon contact with skin or eyes, wash off with water. Use only with adequate ventilation. Wash hands thoroughly before eating, drinking, using tobacco products, and/or using restrooms.

Storage: Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Protect from physical damage. Keep away from food and drinking water. Keep containers tightly closed when not in use.

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

Empty Container Warning: Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Offer empty container for recycling or dispose of in accordance with all federal, state, or local requirements. If empty containers are disposed (not recycled), containers must be triple rinsed to ensure removal of all product. All rinse water should always be directed into a sump or pit that is pumped back to the makeup water tank. All product labels should be removed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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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 and a faceshield.

Protective Clothing Type:

Polyvinyl chloride, Polyethylene, Butyl rubber

General Protective

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.

Measures:

Exposure Limit Data

| <u>CHEMICAL NAME</u> | <u>CAS #</u> | <u>Name of Limit</u> | <u>Exposure</u>   |
|----------------------|--------------|----------------------|---|
| 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)<br>CHROMIC ACID (CRO3) | 7738-94-5<br>7738-94-5 | ZUS_OSHAPO<br>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 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.  |



ARSENIC ACID

7778-39-4 NIOSH-IDLH

5 mg/m3

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |   |
|--|---|
| Physical State:                        | liquid                                    |
| Form                                   | Free flowing                              |
| Color:                                 | Orange/brown                              |
| Odor:                                  | faint, Metallic                           |
| Molecular Weight:                      | None established                          |
| Specific Gravity :                     | Approximately 1.8000                      |
| pH :                                   | Approximately < 2.0                       |
| Boiling Point:                         | 107 DEG°C / 224 DEG°F                     |
| Freezing Point:                        | -30 DEG°C / -22 DEG°F                     |
| Melting Point:                         | Not applicable                            |
| Density:                               | approx. 15.0000 lb/gal                    |
| Vapor Pressure:                        | Not available                             |
| Vapor Density:                         | Not available                             |
| Viscosity:                             | 77.00 DEG°F 23.000 CPS                    |
| Fat Solubility:                        | No data                                   |
| Solubility in Water:                   | soluble                                   |
| Partition coefficient n-octanol/water: | Not available.                            |
| 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:              | Sparks, open flame, other ignition sources, and elevated temperatures.   |
| Chemical Incompatibility:         | Organic materials with high surface area such as rags, cotton waste, sawdust, etc., galvanized metal, strong alkalis, aluminum alloys, zinc, Reducing agents |
| Hazardous Decomposition Products: | Chromium, arsenic, and copper fumes, Toxic arsine gas can be generated in the presence of aluminum and zinc reducing agents under certain conditions.        |
| 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 = 188 mg/kg Rat Female LD50 = 192 mg/kg Rat Male

Dermal LD50 value: LD50 = 520 mg/kg Rabbit

Inhalation LC50 value: Inhalation LC50 Believed to be > 2.0 and < 3.6 mg/l (1 hr., rat) (aerosol), based on a terminated study.

Skin Irritation: This material is expected to be corrosive.

Eye Irritation: This material is expected to be corrosive.

Skin Sensitization: May cause allergic skin sensitization in some individuals.

Acute Toxicity: This product is corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and respiratory tract.

Subchronic / Chronic Toxicity: Chronic overexposure to this product may cause damage to the skin, respiratory tract, teeth and eyes.

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

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

### Ecological Toxicity Values for: Product (CCA Concentrate 60%)

|                                     |   |  |
|-------------------------------------|---|--|
| Bluegill sunfish                    | - | 96 h LC50 = 90.3 mg/l (CCA Concentrate 40%)          |
| Rainbow trout (Oncorhynchus mykiss) | - | 96 h LC50 = 0.84 mg/l (CCA Concentrate 40%)          |
| Mallard duck                        | - | 8 day dietary LD50 > 4,640 ppm (CCA Concentrate 40%) |
| Bobwhite quail                      | - | 8 day dietary LD50 = 920 ppm (CCA Concentrate 40%)   |

## 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.

Potential US EPA Waste Codes : D004, D007

## 14. TRANSPORT INFORMATION

Land (US DOT): UN2922 RQ, CORROSIVE LIQUID, TOXIC, N.O.S. (ARSENIC ACID,

WOLMANAC® Concentrate 60%

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Water (IMDG): CHROMIC ACID) 8 6.1 II No
UN2922 RQ, CORROSIVE LIQUID, TOXIC, N.O.S., (ARSENIC ACID, CHROMIC ACID) 8 6.1 II MARINE POLLUTANT

Air (IATA): Flash Point: Not applicable
UN2922 RQ, CORROSIVE LIQUID, TOXIC, N.O.S., (ARSENIC ACID, CHROMIC ACID) 8 6.1 II
Emergency Response Guide Number: ERG # 154

Transportation Notes: Material is not regulated as a marine pollutant for ground transportation within the US if shipped in non-bulk packages.

EMS: F-A, S-B

15. REGULATORY INFORMATION

UNITED STATES:

Toxic Substances Control Act (TSCA): This is an EPA registered pesticide.
EPA Pesticide Registration Number: 62190-14, Canadian Registration Number: 21226

FIFRA Listing of Pesticide Chemicals (40 CFR 180): This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. "It must be used for purposes consistent with its labeling." Restricted Use Pesticide DUE TO ACUTE TOXICITY AND BECAUSE THIS PRODUCT CONTAINS ARSENIC AND/OR CHROMIUM COMPOUNDS SOME TYPES OF WHICH HAVE BEEN ASSOCIATED WITH TUMOR DEVELOPMENT IN HUMANS For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator certification.

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 If >1/2 gallon (7.5 lbs) as CCA 60% is released into the environment, the arsenic RQ of 1 pound will be exceeded.CHROMIC ACID
Value: 10lbs
Lead
Lead (D008)



Value: 10lbs  
Lead  
Lead (D008)  
Value: 10lbs  
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 Lead  
Value: 0.1%  
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:**

| CAS #     | COMPONENT NAME      |
|-----------|---------------------|
| 7738-94-5 | CHROMIC ACID (CRO3) |
| 1317-38-0 | COPPER OXIDE        |
| 7439-92-1 | LEAD                |
| 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  
1990-01-01  
LEAD  
Environmental hazard, hazardous substance

Pennsylvania: Hazardous substance list  
1989-08-11  
LEAD  
Environmental hazard

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        |
| 7439-92-1 | LEAD                |
| 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  
LEAD  
Special Health Hazard - Carcinogen, Special Health Hazard - Teratogen



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) |
| 7439-92-1 | LEAD                |
| 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  
LEAD  
Teratogen. Sufficient evidence of teratogenic risk in humans.

Massachusetts Right to Know List of Chemicals and Hazard Classifications  
1993-04-24  
ARSENIC ACID

**California Proposition 65:**

| CAS #     | COMPONENT NAME      |
|-----------|---------------------|
| 7738-94-5 | CHROMIC ACID (CRO3) |
| 7439-92-1 | LEAD                |
| 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.  
Maximum Allowable Dose Level 0.5 µg/day  
Lead  
Developmental toxin. Female reproductive toxin. Male reproductive toxin

California Proposition 65. Safe drinking water and toxic enforcement act.  
No Significant Risk Levels 15 µg/day  
oral intake  
Lead



Developmental toxin. Female reproductive toxin. Male reproductive toxin

California Proposition 65. Safe drinking water and toxic enforcement act.  
Maximum Allowable Dose Level  
Lead

California Proposition 65. Safe drinking water and toxic enforcement act.  
No Significant Risk Levels 15 micrograms per day  
Oral  
Lead

California Proposition 65. Safe drinking water and toxic enforcement act.  
Lead  
Female reproductive toxin.

California Proposition 65. Safe drinking water and toxic enforcement act.  
Lead  
Carcinogen

California Proposition 65. Safe drinking water and toxic enforcement act.  
Lead  
Male reproductive toxin

California Proposition 65. Safe drinking water and toxic enforcement act.  
Lead  
Developmental toxin.

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

**WHMIS Hazard Classification:**

Ingredient Disclosure List (WHMIS)  
2007-08-24  
Threshold limits: 1 Weight %  
79  
Chromic acid

Ingredient Disclosure List (WHMIS)  
1988-01-20  
Threshold limits: 1 Weight %  
431  
COPPER COMPOUNDS, N.O.S.

Ingredient Disclosure List (WHMIS)  
2007-08-24  
Threshold limits: 1 Weight %  
577  
Copper compounds



Ingredient Disclosure List (WHMIS)

1988-01-20

Threshold limits: 0.1 Weight %

940

LEAD, ELEMENTAL

Ingredient Disclosure List (WHMIS)

2007-08-24

Threshold limits: 0.1 Weight %

65

Arsenic acid

## 16. OTHER INFORMATION

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MSDS REVISION STATUS : Revised to meet the ANSI standard of 16 sections  
SECTIONS REVISED: 14  
Major References : Available upon request.

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