



MATERIAL SAFETY DATA SHEET

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TRADE NAME: OSMOSE BRAND PRESSURE TREATED WOOD WITH MOLD INHIBITOR

SECTION I

SDS NUMBER: M-CCAW
 PART NUMBER: N/A
 MSDS CODE: CCA
 MSDS OTHER CODE ...: W
 SYNONYMS: N/A

MANUFACTURER: Licensees/Customers of Osmose Wood Preserving, Inc.
 DIVISION: WOOD PRESERVING DIVISION
 FIG PART NUMBER ...: N/A
 VENDOR: N/A
 EMERGENCY PHONE ...: (716) 882-5905
 OTHER CALLS: (404) 228-8434
 ADDRESS: 980 Ellicott Street
 CITY: Buffalo STATE ...:NY ZIP ...:14209
 MSDS PREPARED BY ..: Teri Muchow
 DATE PREPARED: June 19, 1990

***** ADDITIONAL INFORMATION *****

LATEST REVISION DATE: August 4, 1994

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

TRADE NAME: OSMOSE BRAND PRESSURE TREATED WOOD WITH MOLD INHIBITOR

INGREDIENT NAME	CAS	OSHA PEL	ACGIH TLV	OTHER	%
Arsenic Pentoxide	1303-28-2	0.5 MG/M3 as As	0.01 MG/M3 as As	N/A	*
Copper Oxide	1317-39-1	1.0 mg/M3 as Cu	1.0 mg/M3 as Cu	N/A	*
Trivalent Chromium	1308-38-9	1.0 MG/M3 as Cr	0.5 mg/M3 as Cr	N/A	*

MOLD INHIBITOR (SEE ADDITIONAL INFORMATION, SECTION VIII)

***** ADDITIONAL INFORMATION *****

States and territories operating their own OSHA programs may have more protective PEL levels. Contact your state agency to determine the status of the PELs in your state.



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"PERCENTAGE OF HAZARDOUS INGREDIENTS"

	.25pcf	.4pcf	.6pcf	1.0pcf	2.5pcf
COMPONENT % *					
ARSENIC PENTOXIDE	.3	.4	.6	1	2.6
COPPER OXIDE	.15	.2	.3	.6	1.3
TRIVALENT CHROMIUM	.4	.6	.9	1.4	3.3

Based on the applicable retention and a wood density of 32pcf., the above values may vary due to the variability of treatment and the natural variability of wood.

The Arsenic Pentoxide in this product is not subject to OSHA arsenic standard 29 CFR 1910.1018.

SECTION III - CHEMICAL CHARACTERISTICS

BOILING POINT	MELTING POINT	FREEZING POINT	SPECIFIC GRAVITY (H ₂ O = 1) As ² Wood
N/A	N/A	N/A	
PERCENT VOLATILE by VOLUME	THEORETICAL VOC CONTENT (percent of WEIGHT)	WEIGHT PER GALLON	
N/A	N/A	N/A	
pH: N/A Conc: N/A			
VAPOR PRESSURE (mm of Hg)	VAPOR DENSITY (Air = 1)	DENSITY	EVAPORATION RATE Basis (N-BUAC) =1 Rate N/A
N/A	N/A	N/A	
SOLUBILITY IN WATER Highly Insoluble		REACTIVITY IN WATER	
		N/A	
APPEARANCE AND ODOR: Green-yellow wood			



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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	METHOD	FLAMMABLE LIMITS	AUTOIGNITION
N/A	N/A	IN AIR (%)	TEMPERATURE
		UPPER = N/A LOWER = N/A	>265 C

NFPA CODES: HEALTH: N/A
 FLAMMABILITY: N/A
 REACTIVITY: N/A
 OTHER: N/A

HMIS CODES: HEALTH: N/A
 FLAMMABILITY: N/A
 REACTIVITY: N/A
 PROTECTION: N/A

EXTINGUISHER MEDIA: Water Fog, Foam, CO2, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES:

Toxic vapors from wood and preservative may be given off in a fire. Wear full protective equipment and self-contained air unit.

SUAL FIRE AND EXPLOSION HAZARDS:

SECTION V - REACTIVITY DATA

IS THIS CHEMICAL STABLE UNDER NORMAL CONDITIONS OF HANDLING/STORAGE (Y/N)? Y

CONDITIONS TO AVOID (REGARDING STABILITY):

N/A

INCOMPATIBILITY (MATERIALS TO AVOID):

N/A

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL: Ash will contain free arsenic and chromium and may be toxic.

HAZARDOUS POLYMERIZATION POSSIBLE (Y/N) ? N

CONDITIONS TO AVOID (REGARDING POLYMERIZATION):

N/A



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SECTION VI - HEALTH HAZARDS

ROUTES OF ENTRY: Eye and/or skin contact to wood, inhalation of dust.

SIGNS AND SYMPTOMS OF -

ACUTE OVEREXPOSURE:

EYE: Treated or untreated wood dust may cause mechanical irritation. SKIN: Prolonged and/or repeated direct contact with treated or untreated wood dust may cause mild, transient irritation. INHALATION: Finely divided treated or untreated wood dust may cause nose, throat or lung irritation and other respiratory effects. Burning treated wood can release toxic metals into ash and possibly smoke. INGESTION: Not anticipated to be a health problem. A single ingestion by a small child of a large amount (approximately 2.5 oz. or 6 cubic inches) of treated wood dust may require immediate medical attention. For more information, see the comments under this section's "Additional Information". The Mold Inhibitor may cause skin irritation if the wood is wet.

CHRONIC OVEREXPOSURE:

See the above exposure comments.

CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN
NATIONAL TOXICOLOGY PROGRAM

IARC MONOGRAPHS
(Y/N): N

OSHA
(Y/N): N

(Y/N): N

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Individuals with pre-existing disease in or a history of ailments involving the skin, kidney, liver, respiratory tract, eyes, or nervous system are at a greater than normal risk of developing adverse effects from woodworking operations with this product.

***** ADDITIONAL INFORMATION *****

NOTE TO PHYSICIAN: If one ounce of treated wood dust per 10 lbs. of body weight are ingested, acute arsenic intoxication is a possibility.

EMERGENCY AND FIRST AID PROCEDURES

EMERGENCY PHONE NUMBER OF MANUFACTURER: (716) 882-5905

1. INHALATION: Remove from exposure. If breathing has stopped or is difficult, administer artificial respiration or oxygen as indicated. Seek medical aid.
2. EYE CONTACT: Gently flush any particles from the eye with large amounts of cold water. DO NOT RUB EYES.
3. SKIN CONTACT: Rinse skin free of sawdust material with water to avoid abrasion of skin. DO NOT RUB until skin is free of material then wash thoroughly with soap and water.

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QUESTION: Give 1-2 glasses of milk or water to victim if conscious and alert. Induce vomiting OR give 1-2 oz (30-60 g) activated charcoal in water to victim if conscious and alert. See comments under "Additional Information" in this section.

***** ADDITIONAL INFORMATION *****

- COMMENTS -

UNPRESERVED TREATED WOOD DUST OR SAWDUST: The principal health effects reported from occupational exposure to sawdust or wood dust generated from untreated wood are dermatitis, rhinitis, conjunctivitis, reduced or suppressed mucociliary clearance rates, chronic obstructive lung changes, and nasal sinus cancer. Skin and respiratory sensitization have been reported from exposure to hardwood dust. Epidemiological studies have been reported on carcinogenic risks of employment in the furniture-making industry, the carpentry industry, and the lumber and sawmill industry. IARC has reviewed these studies and reports that there is sufficient evidence that nasal carcinomas have been caused by employment in the furniture-making industry where the excess risk is associated with exposure to untreated wood dust or sawdust from hardwood species. IARC concluded that epidemiological data are not sufficient to make a definite assessment of the carcinogenic risk of employment as a carpenter or worker in a lumbermill or sawmill.

UNPRESERVED TREATED WOOD: Sawdust from CCA treated wood has been shown not to cause any adverse changes in mice fed sawdust or birth defect in mice or rabbits receiving sawdust in their feed or applied to their skin. Recreational exposure to children using CCA treated wood playground equipment has been evaluated. The results of this study indicate that the amount of arsenic transferred from the wood surface to the child is within the normal variation of total arsenic exposure to children and that the maximum risks of skin cancer associated with the exposure approximates the skin cancer risk from the sunlight experienced during play periods. Leaf, stem, and fruit of grape plants grown adjacent to CCA treated wood poles did not take up preservative components from the poles above background levels (limit of detection 0.2 and 0.05 ppm for chrome and arsenic, respectively).

CCA PRESERVATIVE: The effects of industrial exposure to the chrome-copper-arsenic preservative used to treat CCA wood has been evaluated in three independent epidemiology studies. In each case the authors concluded that workers exposed on a daily basis to these preservatives were at no increased risk of death or disease as a result of their exposure.

Ingestion of components (arsenic and chromium) of the liquid preservative have caused toxicity to pregnant laboratory animals and their fetuses. Reproductive performance in laboratory animals was not affected by feeding diets containing arsenic.

IARC, NTP and OSHA do not consistently distinguish among arsenic or chrome species but list inorganic arsenic and chromium and certain chromium compounds and human carcinogens. Cancers in humans have followed from long term consumption of Fowler's Solution, a medicinal trivalent arsenical:



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- 2) inhalation and skin contact with inorganic trivalent arsenical sheep-dust;
- 3) the combined inhalation of arsenic trioxide (trivalent arsenical), sulfur dioxide, and other particulates from ore smelting in copper production;
- 4) occupational exposure to nonwater-soluble hexavalent chromium. This product is not manufactured with trivalent arsenic or nonwater-soluble hexavalent chromium compounds but may contain some trivalent arsenic as a result of reactions occurring after wood treatment.

This product must not come in contact with food or feed. Showering and clothing change recommended at the end of each shift.

No known ingredients which occur at greater than 0.1%, other than those listed above, are listed as a carcinogen in the IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, the NTP Annual Report on Carcinogens or OSHA 29 CFR 1910.1001-1047 subpart Z toxic and Hazardous Substances (Specifically Regulated Substances).

Do not use until Consumer Information Sheet is read and understood. Wash exposed areas promptly and thoroughly after skin contact from working with this product and before eating, drinking, using tobacco products or rest rooms.

Do not wear contact lens without proper eye protection when using them.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

HAZARD CLASS: NOT REGULATED
 U.S. DOT ID: "
 UN/NA NUMBER: "

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Specify only pressure treated wood treated with "oxide" CCA preservatives and free from excess surface deposits of preservatives. Avoid handling and machining of freshly treated "wet" wood unless specified safety precautions are observed.

OTHER PRECAUTIONS:

Read and follow label instructions.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Maintain a clean workplace. Clean up scrap lumber and sawdust. Wear a dust mask when cleaning up sawdust.

WASTE DISPOSAL METHODS:

Dispose waste material in an approved landfill. Do Not Burn: Ash may be toxic and a hazardous waste; combustion vapors may be toxic. Dispose in accordance with all Federal, State, and Local laws.



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SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION:

When machining, a dust mask is recommended. For wet wood, a respirator may be required.

VENTILATION REQUIREMENTS:

N/A

LOCAL EXHAUST:

N/A

MECHANICAL:

When machining

SPECIAL:

N/A

OTHER:

N/A

PROTECTIVE GLOVES:

Wear when handling wet wood. Leather to avoid splinters.

EYE PROTECTION:

To protect from sawdust.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

As necessary to limit exposure when handling wet wood.

WORK/HYGIENIC PRACTICES:

Use good personal hygiene. Wash hands before eating or smoking.

***** ADDITIONAL INFORMATION *****

ADDITIONAL INFORMATION ON MOLD INHIBITOR, AS FOUND IN WOOD:

INGREDIENT NAME	CAS#	OSHA PEL	ACGIH TLV	RQ	PPM
5-Chloro-2-Methyl-4- Isothiazolin-3-one	26172-55-4	N/A	N/A	100#	1-4
2-Methyl-4-Isothiazolin- 3-one	2682-20-4	N/A	N/A	100#	.5-1.5
Magnesium Chloride	7786-30-3	N/A	N/A	N/A	1-4
Magnesium Nitrite	10377-60-3	N/A	N/A	N/A	2-6

* None of the above ingredients are considered carcinogens!

* CCA treated wood with mold inhibitor contains less than one percent of the above listed chemicals.



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N/A = Not Applicable

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