

**MATERIAL SAFETY  
DATA SHEET**

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: (717) 656 – 2811  
FOR ALL MSDS QUESTIONS & REQUESTS, CALL: (717) 656 – 2811

PRODUCT NAME: **Wolmanized® L3 Outdoor® Wood**

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Manufactured By:</b>	REVISION DATE:	09/21/2009
<b>H.M. Stauffer &amp; Sons, Inc.</b>	SUPERCEDES:	03/20/2009
<b>33 Glenola Drive</b>	MSDS Number:	000000002628
<b>Leola, PA 17540</b>	SYNONYMS:	Wolman® AG Treated Wood
<b>(717) 656-2811</b>	CHEMICAL	
	FAMILY:	
	DESCRIPTION /	Treated Wood Products
	USE:	
	FORMULA:	None established

**2. HAZARDS IDENTIFICATION**

OSHA Hazard Classification:	<b>Wood dust is classified as: carcinogenic, possible sensitizer, mild skin irritant, possible respiratory irritant., WARNING! MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR (DURING PROCESSING)</b>
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Routes of Entry:	Inhalation, skin, eyes, ingestion
Chemical Interactions:	No known or reported interactions.
Medical Conditions	Inhalation of the dust from this material at
Aggravated:	concentrations above the TLV can aggravate pre-existing upper respiratory and lung diseases such as bronchitis, emphysema and asthma., Skin diseases including eczema and sensitization

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	2*	1	0	
NFPA	2	1	0	

**Immediate (Acute) Health Effects**

Inhalation Toxicity:	Airborne treated or untreated wood dust may cause nose, throat or lung irritation.
Skin Toxicity:	Handling of wood may result in skin exposure to splinters. Prolonged and/or repeated contact with treated or untreated wood dust may result in mild irritation.
Eye Toxicity:	Treated or untreated wood dust may cause mechanical irritation.
Ingestion Toxicity:	Not expected to be a route of exposure in normal industrial use.
Acute Target Organ Toxicity:	Skin, Eyes, Respiratory Tract

**Prolonged (Chronic) Health Effects**

Carcinogenicity:	IARC has classified untreated hardwood and hardwood/softwood mix wood dust as a Group 1 human carcinogen. The wood dust classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with occupational exposures to untreated wood dust. NTP has classified all untreated wood dust as a carcinogen.
Reproductive and Developmental Toxicity:	Not known or reported to cause reproductive or developmental toxicity.
Inhalation:	May cause respiratory sensitization and/or irritation.
Skin Contact:	Treated or untreated wood dust, depending on the species, may cause dermatitis on prolonged, repetitive contact.
Ingestion:	Not expected to be a route of exposure in normal industrial use.
Sensitization:	Various species of untreated wood dust can elicit an allergic respiratory response in sensitized persons. Various species of untreated wood dust can elicit an allergic type skin irritation in sensitized persons.

Chronic Target Organ      Respiratory Tract, Skin, Eyes  
 Toxicity:  
 Supplemental Health      No additional health information available.  
 Hazard Information :

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
Propanol, (2, methoxy-methylethoxy-)	34590-94-8	
PEG-40 Castor Oil	61791-12-6	
Propiconazole	60207-90-1	
TEBUCONAZOLE	107534-96-3	
Imidacloprid	138261-41-3	
Wood Dust	Not Assigned	>= 98 -
Formaldehyde (by-product of the untreated plywood article)	50-00-0 (Only applies to plywood products)	0 - 0.1

**4. FIRST AID MEASURES**

Inhalation:      IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. If not breathing, give artificial respiration. Call for medical assistance.

Skin Contact:      IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.

Eye Contact:      IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.

Ingestion: IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.

## 5. FIRE FIGHTING MEASURES

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

### Flammable Properties

Flash Point: No data.

Autoignition Temperature: No data.

Fire / Explosion Hazards: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Extinguishing Media: Water spray

Fire Fighting Instructions: In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.

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

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Personal Protection for Emergency Situations: No extra protection required beyond that listed in Section 8. In case of fire, use normal fire fighting equipment.

### Spill Mitigation Procedures

Air Release: Not applicable

Water Release: Notify all downstream users of possible contamination.

Land Release: Contain all solids for treatment or disposal.

Additional Spill Information : Remove all sources of ignition. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Nonsparking tools should be used. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

## **7. HANDLING AND STORAGE**

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Handling: DO NOT BURN TREATED WOOD. Do not use pressure treated chips or sawdust as mulch. Whenever possible, sawing or machining treated or untreated wood should be performed outdoors to avoid accumulations of airborne wood dust. Wash hands thoroughly before eating, drinking, using tobacco products, and/or using restrooms. Minimize dust generation and accumulation. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Storage: Keep away from unguarded flame, sparks, and heat sources. Protect from physical damage. Maintain good housekeeping.

Incompatible Materials for Storage: strong acids oxidizers

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Ventilation: Whenever possible, sawing or machining treated or untreated wood should be performed outdoors or in well ventilated areas to avoid accumulations of airborne wood dust. Ventilation should be sufficient to maintain exposures below the recommended exposure limits.

Protective Equipment for Routine Use of Product

Respiratory Protection : When sawing or cutting treated or untreated wood, wear a NIOSH approved P95 or P100 Particulate filter respirator. FOR PLYWOOD PRODUCTS ONLY: If Formaldehyde vapor levels exceed the recommended exposure limits, wearing a NIOSH approved respirator is required. Formaldehyde is a by-product of the untreated plywood article and not the result of this treatment.

Respirator Type : For plywood products only: A NIOSH approved full-face air purifying respirator with combination formaldehyde/organic vapor cartridge and a 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.

Skin Protection : Wear leather gloves. Wear long sleeve shirt, pants, and steel-toed shoes when handling treated or untreated wood.

Eye Protection: Use safety glasses with side shields or chemical goggles when sawing or cutting treated or untreated wood.

Protective Clothing Type: Wear leather gloves.

General Protective Measures: Due to the explosive potential of dust when suspended in air, precautions should be taken when sawing, sanding, or machining wood or wood products to prevent sparks or other ignition sources. If required, use wet methods and/or explosion suppression systems to reduce generation of dust. Local exhaust ventilation is recommended when sawing, sanding, or machining this product. General dilution ventilation is recommended in processing and storage areas.

Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	ZUS_ACGIH	100 ppm TWA
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	ZUS_ACGIH	150 ppm STEL
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	ZUS_OSHAPO	100 ppm TWA 600 mg/m3 TWA
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	ZUS_OSHAPO	150 ppm STEL 900 mg/m3 STEL
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	ZUS_OSHAP1	100 ppm TWA 600 mg/m3 TWA
Propanol, (2,methoxy-methylethoxy-)	34590-94-8	NIOSH-IDLH	600 ppm

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Wood Dust		ZUS_OSHAZ3	15.0 mg/m <sup>3</sup> PEL Total dust (as nuisance dust)
Wood Dust		ZUS_OSHAZ3	5.0 mg/m <sup>3</sup> PEL Respirable fraction. (as nuisance dust)
Wood Dust		ZUS_ACGIH	0.5 mg/m <sup>3</sup> TWA inhalable fraction (Western Red Cedar)
Wood Dust		ZUS_ACGIH	1.0 mg/m <sup>3</sup> TWA inhalable fraction (All other species)
Formaldehyde (by-product of the untreated plywood article)	50-00-0	ZUS_ACGIH	0.3 ppm C
Formaldehyde (by-product of the untreated plywood article)	50-00-0	ZUS_OSHAPO	0.75 ppm TWA See Table Z-2 for operations or sectors excluded from section 1910.1048 or for which limit(s) is(are) stayed. Sec. 1910.1048 Formaldehyde., Sec. 1910.1048 Formaldehyde.
Formaldehyde (by-product of the untreated plywood article)	50-00-0	ZUS_OSHAPO	2 ppm STEL See Table Z-2 for operations or sectors excluded from section 1910.1048 or for which limit(s) is(are) stayed. Sec. 1910.1048 Formaldehyde., Sec. 1910.1048 Formaldehyde.
Formaldehyde (by-product of the untreated plywood article)	50-00-0	ZUS_OSHAP2	0.75 ppm TWA Sec. 1910.1048 Formaldehyde., see 1910.1048
Formaldehyde (by-product of the untreated plywood article)	50-00-0	ZUS_OSHAP2	2 ppm STEL Sec. 1910.1048 Formaldehyde., see 1910.1048
Formaldehyde (by-product of the untreated plywood article)	50-00-0	ZUS_OSHAP1	0.75 ppm TWA
Formaldehyde (by-product of the untreated plywood article)	50-00-0	ZUS_OSHAP1	2 ppm STEL
Formaldehyde (by-product of the untreated plywood article)	50-00-0	ZUS_OSHAP1	
Formaldehyde (by-product of the untreated plywood article)	50-00-0	ZUS_OSHAP2	
Formaldehyde (by-product of the untreated plywood article)	50-00-0	ZUS_OSHAPO	
Formaldehyde (by-product of the untreated plywood article)	50-00-0	NIOSH-IDLH	20 ppm (Only applies to plywood products.)

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: solid

Form	solid
Color:	Varies depending on colorant used
Odor:	None
Molecular Weight:	None established
Specific Gravity :	Not applicable
pH :	Not applicable
Boiling Point:	Not applicable
Freezing Point:	Not applicable
Melting Point:	No data
Density:	solid
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Viscosity:	Not applicable
Fat Solubility:	No data
Solubility in Water:	No data.
Partition coefficient n-octanol/water:	No data
Evaporation Rate:	No data
Oxidizing:	None established
Volatiles, % by vol.:	No data
VOC Content	No data
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., Contact with incompatible substances
Chemical Incompatibility:	strong acids, oxidizers
Hazardous Decomposition Products:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Decomposition Temperature:	No data

## 11. TOXICOLOGICAL INFORMATION

### Component Animal Toxicology

#### Oral LD50 value:

Propanol, (2, methoxy-methylethoxy-)	LD50 = 5,300 mg/kg	rat
PEG-40 Castor Oil	LD50 > 5,000 mg/kg	Rat
Propiconazole	LD50 = 1,517 mg/kg	Rat
TEBUCONAZOLE	LD50 = 1,700 mg/kg	Rat Male
TEBUCONAZOLE	LD50 = 4,000 mg/kg	Rat Female
Imidacloprid	LD50 = 450 mg/kg	Rat

#### Dermal LD50 value:

Propanol, (2, methoxy-methylethoxy-)	LD50 > 2,000 mg/kg	rabbit
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Carcinogenicity: IARC has classified untreated hardwood and hardwood/softwood mix wood dust as a Group 1 human carcinogen. The wood dust classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with occupational exposures to untreated wood dust. NTP has classified all untreated wood dust as a carcinogen.

Propanol, (2, methoxy-methylethoxy-)	This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. Chemicals of similar structure have been shown not to cause cancer in laboratory animals.
PEG-40 Castor Oil	This material did not cause cancer in long-term animal studies.
Propiconazole	This material has been classified by the U.S. EPA as a "Group C" Carcinogen (Suggestive Human Carcinogen), based on the observation of tumors in mouse livers. The relevance of tumors in the mouse liver has been questioned when assessing the risk to humans.
TEBUCONAZOLE	This material has been classified by the U.S. EPA as a "Group C" Carcinogen (Suggestive Human Carcinogen), based on the observation of tumors in mouse livers. The relevance of tumors in the mouse liver has been questioned when assessing the risk to humans.

## 12. ECOLOGICAL INFORMATION

Overview: No data for product. Individual constituents are as follows:

### Ecological Toxicity Values for: **Propanol, (2, methoxy-methylethoxy-)**

Fathead minnow (Pimephales promelas),	-	96 h LC50 > 10,000 mg/l
Daphnia magna,	-	48 h EC50= 1,919 mg/l

### Ecological Toxicity Values for: **Propiconazole**

Carp,	-	96 h LC50 6.8 mg/l
Rainbow trout (Salmo gairdneri),	-	96 h LC50 5.3 mg/l
Crayfish	-	96 h LC50= 42 mg/l
Daphnia magna,	-	48 h EC50= 4.8 - 11.5 mg/l

### Ecological Toxicity Values for: **Imidacloprid**

Carp,	-	96 h LC50 = 280 mg/l
Rainbow trout (Salmo gairdneri),	-	96 h LC50 = 211 mg/l
Daphnia magna,	-	48 h EC50= 85 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 nonhazardous waste according to U.S. RCRA regulations. Dispose of in accordance with all Local, State, Federal, and Provincial Environmental Regulations.

Disposal Methods : Dispose of in a permitted industrial waste landfill following Federal, State Local, or Provincial regulations.

Potential US EPA Waste Codes : Not applicable

### 14. TRANSPORT INFORMATION

Land (US DOT): NOT REGULATED AS A DOT HAZARDOUS MATERIAL

Water (IMDG): NOT REGULATED AS A HAZARDOUS MATERIAL,

Flash Point: No data.

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 CONTAINS ONE OR MORE COMPONENTS WHICH WERE NOT FOUND ON THE TSCA INVENTORY. This item is exempt from TSCA and FIFRA under the treated article exemption per 40 CFR 152.25(a).

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 None established  
ZUS\_SAR302 Reportable quantity None established

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

ZUS\_SAR313 De minimis concentration There are no components of this product present above de minimis concentrations.

**Clean Air Act Toxic ARP Section 112r:**

CAA 112R None established

**Clean Air Act Socmi:**

HON SOC

US. EPA Hazardous Organic NESHA (HON) Synthetic Organic Chemicals (40 CFR 63.100-.106, Table 1)

07 1999

Group I

FORMALDEHYDE

**Clean Air Act VOC Section 111:**

CAA 111

US. EPA Clean Air Act (CAA) Section 111 SOCM I Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)

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FORMALDEHYDE

**Clean Air Act Haz. Air Pollutants Section 112:**

ZUS\_CAAHAP

US. Clean Air Act - Hazardous Air Pollutants (HAP)

1990-01-01  
Listed  
Formaldehyde

ZUS\_CAAHRP                      None established

CAA AP

US. EPA Hazardous Organic NESHP (HON) Hazardous Air Pollutants (40 CFR  
63.100-.106, Table 2)  
04 1999  
FORMALDEHYDE

US. EPA Hazardous Organic NESHP (HON) Hazardous Air Pollutants (40 CFR  
63.100-.106, Table 2)  
04 1999  
FORMALDEHYDE

**State Right-to-Know Regulations Status of Ingredients**

**Pennsylvania:**

CAS #	COMPONENT NAME
34590-94-8	Propanol, (2, methoxy-methylethoxy-)
50-00-0	Formaldehyde (by-product of the untreated plywood article)

ZUSPA\_RTK

Pennsylvania: Hazardous substance list  
1989-08-11  
PROPANOL, (2-METHOXYMETHYLETHOXY)-

Pennsylvania: Hazardous substance list  
1989-08-11  
FORMALDEHYDE  
Environmental hazard, Special hazardous substance

**New Jersey:**

CAS #	COMPONENT NAME
34590-94-8	Propanol, (2, methoxy-methylethoxy-)
50-00-0	Formaldehyde (by-product of the untreated plywood article)

ZUSNJ\_RTK

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

2007-03-01

DIPROPYLENE GLYCOL METHYL ETHER PROPANOL, 1(or 2)-(2-METHOXYMETHYLETHOXY)- (2-METHOXYMETHYLETHOXY) PROPANOL

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

2007-03-01

FORMALDEHYDE METHYL ALDEHYDE FORMALIN  
Special Health Hazard - Carcinogen, Special Health Hazard - Corrosive, Special Health Hazard - Flammable - Fourth Degree, Special Health Hazard - Mutagen

**Massachusetts:**

CAS #	COMPONENT NAME
34590-94-8	Propanol, (2, methoxy-methylethoxy-)
50-00-0	Formaldehyde (by-product of the untreated plywood article)

ZUSMA\_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

DIPROPYLENE GLYCOL METHYL ETHER

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

FORMALDEHYDE FORMALIN  
Carcinogen, Extraordinarily hazardous

**California Proposition 65:**

CAS #	COMPONENT NAME
50-00-0	Formaldehyde (by-product of the untreated plywood article)

ZUSCA\_P65

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

No Significant Risk Levels 40 µg/day

Formaldehyde (gas)

Carcinogen

California Proposition 65. Safe drinking water and toxic enforcement act.  
No Significant Risk Levels 40 micrograms per day  
Formaldehyde (gas)

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

**WHMIS Hazard Classification:**

None established

**16. OTHER INFORMATION**

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MSDS REVISION STATUS : Revised to meet the ANSI standard of 16 sections  
SECTIONS REVISED: 2, 5, 6, 7, 8  
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. THE MANUFACTURER BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS.