PRODUCT NAME: Wolmanized® L3 Outdoor® Wood

1. PRODUCT AND COMPANY IDENTIFICATION

Manufactured by: 

REVISION DATE: 04/10/2007
SUPERCEDES: 

MSDS Number: 000000002628
SYNONYMS: Wolman® AG Treated Wood
CHEMICAL FAMILY: Treated Wood Products
DESCRIPTION / USE: None established
FORMULA: 

2. HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th>OSHA Hazard Classification</th>
<th>Wood dust is classified as: carcinogenic, possible sensitizer, mild skin irritant, possible respiratory irritant.</th>
</tr>
</thead>
</table>

Routes of Entry: Inhalation, skin, eyes, ingestion

Chemical Interactions: No known or reported interactions.

Medical Conditions Aggravated: Inhalation of the dust from this material at 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

<table>
<thead>
<tr>
<th>Hazard Ratings</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical / Instability</th>
<th>PPI / Special hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>3*</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>NFPA</td>
<td>Not established</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 Toxicity: Respiratory Tract, Skin, Eyes

Supplemental Health Hazard Information: No additional health information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS OR CHEMICAL NAME</th>
<th>CAS #</th>
<th>% RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propanol, (2, methoxy-methylethoxy-)</td>
<td>34590-94-8</td>
<td></td>
</tr>
<tr>
<td>PEG-40 Castor Oil</td>
<td>61791-12-6</td>
<td></td>
</tr>
<tr>
<td>Propiconazole</td>
<td>60207-90-1</td>
<td></td>
</tr>
<tr>
<td>TEBUCONAZOLE</td>
<td>107534-96-3</td>
<td></td>
</tr>
<tr>
<td>Imidacloprid</td>
<td>138261-41-3</td>
<td></td>
</tr>
<tr>
<td>Wood Dust</td>
<td>Not Assigned</td>
<td>&gt;= 98 -</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>50-00-0 (Only applies to plywood products)</td>
<td>0 - 0.1</td>
</tr>
</tbody>
</table>
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

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: Combustible solid. If the product is involved in a fire, toxic smokes could develop. Dust may be ignitable if mixed with air in the presence of an ignition source.

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

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: 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. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.
7. HANDLING AND STORAGE

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.

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.

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.

Exposure Limit Data

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS #</th>
<th>Name of Limit</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propanol, (2, methoxy-methyleneoxy-)</td>
<td>34590-94-8</td>
<td>ACGIH</td>
<td>100 ppm TWA</td>
</tr>
<tr>
<td>Propanol, (2, methoxy-methyleneoxy-)</td>
<td>34590-94-8</td>
<td>ACGIH</td>
<td>150 ppm STEL</td>
</tr>
<tr>
<td>Propanol, (2, methoxy-methyleneoxy-)</td>
<td>34590-94-8</td>
<td>ACGIH</td>
<td>Skin designation: Can be absorbed through the skin.</td>
</tr>
<tr>
<td>Propanol, (2, methoxy-methyleneoxy-)</td>
<td>34590-94-8</td>
<td>OSHA Z1</td>
<td>100 ppm PEL</td>
</tr>
<tr>
<td>Propanol, (2, methoxy-methyleneoxy-)</td>
<td>34590-94-8</td>
<td>OSHA Z1</td>
<td>600 mg/m3 PEL</td>
</tr>
<tr>
<td>Propanol, (2, methoxy-methyleneoxy-)</td>
<td>34590-94-8</td>
<td>OSHA Z1</td>
<td>Skin designation: Can be absorbed through the skin.</td>
</tr>
<tr>
<td>Propanol, (2, methoxy-methyleneoxy-)</td>
<td>34590-94-8</td>
<td>NIOSH-IDLH</td>
<td>600 ppm</td>
</tr>
</tbody>
</table>
Wood Dust | OSHA Z1 | 15.0 mg/m³ PEL Total dust. A state-run OSHA program may have more stringent limits for wood dust and/or PNOR.

Wood Dust | OSHA Z1 | 5.0 mg/m³ PEL Respirable fraction. A state-run OSHA program may have more stringent limits for wood dust and/or PNOR.

Wood Dust | ACGIH | 1.0 mg/m³ TWA Inhalable fraction. (Western Red Cedar)

Wood Dust | ACGIH | 1.0 mg/m³ TWA Inhalable fraction. (All other species)

Formaldehyde | 50-00-0 | ACGIH | 0.3 ppm Ceiling (Only applies to plywood products.)

Formaldehyde | 50-00-0 | OSHA | Reference: (Only applies to plywood products.)

Formaldehyde | 50-00-0 | OSHA | 0.75 ppm TWA (Only applies to plywood products.)

Formaldehyde | 50-00-0 | OSHA | 2 ppm STEL (Only applies to plywood products.)

Formaldehyde | 50-00-0 | OSHA | 0.5 ppm OSHA_ACT (Only applies to plywood products.)

Formaldehyde | 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.
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

<table>
<thead>
<tr>
<th>Component</th>
<th>Animal Toxicology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD₅₀ value:</td>
<td></td>
</tr>
<tr>
<td>Propanol, (2,methoxy-methylethoxy-)</td>
<td>LD₅₀ = 5,300 mg/kg</td>
</tr>
<tr>
<td>PEG-40 Castor Oil</td>
<td>LD₅₀ &gt; 5,000 mg/kg Rat</td>
</tr>
<tr>
<td>Propiconazole</td>
<td>LD₅₀ = 1,517 mg/kg Rat</td>
</tr>
<tr>
<td>TEBUCONAZOLE</td>
<td>LD₅₀ = 1,700 mg/kg Rat Male</td>
</tr>
<tr>
<td>TEBUCONAZOLE</td>
<td>LD₅₀ = 4,000 mg/kg Rat Female</td>
</tr>
<tr>
<td>Imidacloprid</td>
<td>LD₅₀ = 450 mg/kg Rat</td>
</tr>
</tbody>
</table>

| Dermal LD₅₀ value: |                      |
| Propanol, (2,methoxy-methylethoxy-) | LD₅₀ > 2,000 mg/kg Rabbit |
| PEG-40 Castor Oil | LD₅₀ Believed to be > 2,000 mg/kg Rabbit |
| Propiconazole | LD₅₀ > 4,000 mg/kg Rat |
| TEBUCONAZOLE | LD₅₀ > 5,000 mg/kg Rat |
| Imidacloprid | LD₅₀ > 5,000 mg/kg Rat |

| Inhalation LC₅₀ value: |                      |
| Propanol, (2,methoxy-methylethoxy-) | Inhalation LC₅₀ 1 HOUR > 200 MG/L Rat |
| PEG-40 Castor Oil | Inhalation LC₅₀ Believed to be > 2.0 MG/L Rat |
| Propiconazole | Inhalation LC₅₀ 4 HOUR > 5.27 MG/L Rat |
| TEBUCONAZOLE | Inhalation LC₅₀ 4 HOUR > 5 MG/L Rat |
| Imidacloprid | Inhalation LC₅₀ 4 HOUR > 5.3 MG/L Rat |

Product Animal Toxicity

| Oral LD₅₀ value: | LD₅₀ Believed to be > 5,000 mg/kg Rat |
| Dermal LD₅₀ value: | LD₅₀ Believed to be > 2,000 mg/kg Rabbit |
| Inhalation LC₅₀ value: | No data |
### Skin Irritation:
Prolonged and/or repeated contact with treated or untreated wood dust may result in mild irritation.

### Eye Irritation:
Treated or untreated wood dust may cause mechanical irritation.

### Skin 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.

### Subchronic / Chronic Toxicity:
May cause respiratory sensitization and/or irritation. Treated or untreated wood dust, depending on the species, may cause dermatitis on prolonged, repetitive contact.

#### PEG-40 Castor Oil
There are no known or reported effects from chronic exposure.

#### Reproductive and Developmental Toxicity:
Not known or reported to cause reproductive or developmental toxicity.

<table>
<thead>
<tr>
<th>Material</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEG-40 Castor Oil</td>
<td>This material has been tested in laboratory animals and no evidence of teratogenicity or embryotoxicity was seen.</td>
</tr>
<tr>
<td>Propiconazole</td>
<td>This chemical has been tested in laboratory animals and there was no evidence of reproductive toxicity, teratogenicity, or developmental toxicity.</td>
</tr>
</tbody>
</table>

#### Mutagenicity:
Not known or reported to be mutagenic.

<table>
<thead>
<tr>
<th>Material</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propanol, (2,methoxy-methylethoxy)</td>
<td>Not known or reported to be mutagenic.</td>
</tr>
<tr>
<td>PEG-40 Castor Oil</td>
<td>This material was non-mutagenic in the Ames test.</td>
</tr>
<tr>
<td>Propiconazole</td>
<td>This chemical has been tested in a battery of mutagenicity/genotoxicity assays and the results were negative.</td>
</tr>
</tbody>
</table>

#### 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.

<table>
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<tr>
<th>Material</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propanol, (2,methoxy-methylethoxy)</td>
<td>This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.</td>
</tr>
<tr>
<td>PEG-40 Castor Oil</td>
<td>This material did not cause cancer in long-term animal studies.</td>
</tr>
<tr>
<td>Propiconazole</td>
<td>This material has been classified by the U.S. EPA as a &quot;Group C&quot; 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.</td>
</tr>
<tr>
<td>TEBUCONAZOLE</td>
<td>This material has been classified by the U.S. EPA as a &quot;Group C&quot; 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.</td>
</tr>
</tbody>
</table>
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 HOUR LC50 > 10,000 mgl
- Daphnia magna, 48 HOUR EC50 1,919 mgl

**Ecological Toxicity Values for: Propiconazole**

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

**Ecological Toxicity Values for: Imidacloprid**

- Carp, 96 HOUR LC50 = 280 mgl
- Rainbow trout (Salmo gairdneri), 96 HOUR LC50 = 211 mgl
- Daphnia magna, 48 HOUR EC50= 85 mgl

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 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

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:
SARA III Threshold Planning Quantity: None established

Reportable Quantity (49 CFR 172.101, Appendix):
CERCLA None established
SARA III Reportable quantity: None established

Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components
SARA III 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 None established

Clean Air Act VOC Section 111:
CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112:
CAA None established
CAA 112I None established
CAA AP None established

State Right-to-Know Regulations Status of Ingredients Pennsylvania:
<table>
<thead>
<tr>
<th>CAS #</th>
<th>COMPONENT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>34590-94-8</td>
<td>Propanol, (2,methoxy-methylethoxy-)</td>
</tr>
</tbody>
</table>

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)
New Jersey:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>COMPONENT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>60207-90-1</td>
<td>Propiconazole</td>
</tr>
</tbody>
</table>

US. New Jersey Community Right-To-Know Survey, Table A: NJ Environmental Hazardous Substances [EHS] List (N.J. Admin. Code Title 7 Section 1G-2.1)

NJ RTK
2001
Substance no. 3442
PROPICONAZOLE (1-[2-(2,4-DICHLOROPHENYL)-4-PROPYL-1,3-DIOXOLAN-2-YL]-METHYL-1H-1,2,4-TRIAZOLE)

Massachusetts:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>COMPONENT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>34590-94-8</td>
<td>Propanol, (2-methoxy-methylethoxy)</td>
</tr>
</tbody>
</table>

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

MASS RTK
04 1993
DIPROPYLENE GLYCOL METHYL ETHER

California Proposition 65:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>COMPONENT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>US CA CRT</td>
<td>None established</td>
</tr>
<tr>
<td>US CA65CRT</td>
<td>None established</td>
</tr>
</tbody>
</table>

WHMIS Hazard Classification:

16. OTHER INFORMATION

MSDS REVISION STATUS : Revised to meet the ANSI standard of 16 sections
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.