1 - PRODUCT AND COMPANY IDENTIFICATION

Common Name: PEG® Yellow Wood Glue

Manufacturer: WILSONART INTERNATIONAL, INC.
P. O. BOX 6110 – 2400 WILSON PLACE
TEMPLE, TX 76503
INFORMATION PHONE: 877-816-3950 (USA)

Trade Name: PEG® Yellow Wood Glue

Material Uses: Adhesive for laminate

In Case of Emergency Contact CHEMTREC: 800-424-9300 (USA)
703-527-3887 (INTERNATIONAL)

2 - HAZARDS IDENTIFICATION

Route of Entry: Skin, eyes, inhalation, ingestion.
Target Organs: None.
Skin Contact: May cause skin irritation. Preexisting skin conditions may be aggravated by exposure to this material.
Eye Contact: May cause eye irritation.
Inhalation: Breathing vapors may cause irritation to the respiratory tract. Preexisting respiratory conditions may be aggravated by exposure to this material.
Ingestion: Not an expected route of entry. If ingested it may cause irritation to the gastrointestinal tract.

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>PPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>NFPA</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>WHMIS:</td>
<td>D2B</td>
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</table>

3 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS#</th>
<th>% by Weight</th>
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<tbody>
<tr>
<td>Starch</td>
<td>9005-84-9</td>
<td>10 - 25</td>
</tr>
<tr>
<td>Polyvinyl Alcohol</td>
<td>25213-24-5</td>
<td>5 - 20</td>
</tr>
<tr>
<td>Vinyl Acetate Polymer</td>
<td>9003-20-7</td>
<td>5 - 20</td>
</tr>
<tr>
<td>Filler</td>
<td>NJTSRN 970005</td>
<td>1 – 10</td>
</tr>
</tbody>
</table>

4 - FIRST AID MEASURES

Skin Contact: Remove contaminated clothing and wash affected areas with soap and water. If irritation develops, seek medical attention.
Eye Contact: Flush eyes with water for 15 minutes. Remove contact lenses prior to water flush. Seek medical attention.
Inhalation: Remove patient to fresh air. If patient is having difficulty breathing, seek immediate medical attention. If not breathing, clear airway and start mouth-to-mouth artificial respiration (or use bag-mask respirator). Seek immediate medical attention.
Ingestion: DO NOT induce vomiting. Seek immediate medical attention. DO NOT give anything by mouth to an unconscious person.
5 - FIRE FIGHTING MEASURES

Flash Point: Not Applicable.
Flash Point Method: Not Applicable.
Autoignition Temp.: Not Applicable.
Burning Rate: Material is not flammable.
Flammability Classification: Combustible Liquid Class IIIB. Dry adhesive will burn.
Firefighting Equipment: Use self-contained breathing apparatus (SCBA) with a full-face piece and pressure demand or other positive-pressure mode and protective gear appropriate for surrounding materials. In case of fire, use water, dry chemical, CO₂, or alcohol foam extinguishing media as appropriate for surrounding fire.
Hazardous Products of Combustion: Carbon Oxides (CO and CO₂), Acetic Acid, and various Hydrocarbons.

6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate PPE. Make sure area is well ventilated. Spilled adhesive may be slippery.
Environmental Precautions: Keep out of sewers and drains.
Clean-up Methods: Dike and contain spill. Absorb spilled product with vermiculite, dry sand, or earth. Place in a suitable non-leaking container and tightly seal for disposal.

7 - HANDLING AND STORAGE

Handling Precautions: Wear appropriate PPE. If used indoors, make sure to provide adequate ventilation to prevent vapor build-up. Avoid breathing of vapors. Wash hands with soap and water after handling.
Storage Requirements: Store in a cool, dry, well-ventilated area. Avoid freezing and boiling temperatures. Minimize contact with atmospheric air to prevent inoculation with microorganisms.

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use in a well ventilated area. Ensure that a working eyewash and safety shower are in the work area.
Protective Equipment: Wear safety glasses with side shields, and neoprene or rubber gloves.
Exposure Guidelines / Other:

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Exposure Limits</th>
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</thead>
<tbody>
<tr>
<td>Starch (CAS 9005-84-9)</td>
<td>OSHA PEL: TWA 15 mg/m³ (total) TWA 5 mg/m³ (respirable)</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV: TWA 10 mg/m³</td>
</tr>
</tbody>
</table>

Consult local authorities and local regulations for exposure limits.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow Liquid.
Physical State: Liquid
Autoignition Temp.: Not Applicable
Freezing / Melting Point: Similar to water
Solubility: Soluble in Water
Vapor Density: Equivalent to water
Viscosity: ~ 5000 cP
VOC: < 20 g/L
Odor: Mild sweet
Boiling Point: Similar to water
pH: 4.0 – 5.5
Specific Gravity/Density: 1.16 – 1.18
Vapor Pressure: Equivalent to water
VHAP: Not Available
10 - STABILITY AND REACTIVITY

**Stability:** Product is stable as supplied. Coagulation may occur following freeze/thaw cycle or boiling.

**Conditions to Avoid:** Extreme temperatures.

**Materials to Avoid (Incompatibility):** Strong acids, strong bases, copper, and copper alloys.

**Hazardous Decomposition Products:** Carbon Oxides (CO and CO₂), Acetic Acid, and various Hydrocarbons.

**Hazardous Polymerization:** Will not polymerize.

11 - TOXICOLOGICAL INFORMATION

**Acute Toxicity to Animals:**
Polyvinyl Alcohol (CAS 25213-24-5):
- Inhalation 1 hour LC50 > 20.0 mg/L (rat).
- Oral LD50 > 5000 mg/kg (rat).
- Dermal LD50 > 1000mg/kg (rabbit).

**Chronic Toxicity to Animals:** No additional information.

**Acute Toxicity to Humans:** This product has not been tested for human effects. This product is not expected to be toxic to humans. Biocide is corrosive to eyes.

**Chronic Toxicity on Humans:** No additional information.

**Carcinogenic Effects:** No additional information.

**Mutagenic Effects:** No additional information.

**Teratogenic Effects:** No additional information.

**Developmental Toxicity:** No additional information.

12 - ECOLOGICAL INFORMATION

**Ecotoxicity:** Polyvinyl alcohol:
- LC50 > 40000 ppm (fish - 96 hours)
- LC50 = 7850 ppm (crustacean - 48 hours)
- EC50 > 50000 ppm (bacteria – Microtox method).

**BOD5 and COD:** Polyvinyl alcohol: 100% BOD 30 day test with acclimation. Greater than 90% Zahn Wellens Test.

**Biodegradable / OECD:** Not Available.

**Mobility:** Not Available.

**Toxicity of the Products of Biodegradation:** Not Available.

13 - DISPOSAL CONSIDERATIONS

Absorb spilled product with vermiculite, dry sand, or earth and allow to solidify. Dispose of solid material in a suitable container.

Dispose of in accordance with Federal, State, and local regulations.

14 - TRANSPORT INFORMATION

**Restrictions:** None known.

**DOT Requirements:** Not a DOT controlled material (United States).

**DOT Classification:** Adhesive Resin Compound.

**Markings:** None.

**Packaging Requirements:** Keep from freezing.

**ADR Requirements:** Not an ADR controlled material (Europe).

**IMDG Requirements:** Not an IMDG controlled material.
IATA Requirements: Not an IATA controlled material.
Marine Pollutant: Not expected to be a marine pollutant.

15 - REGULATORY INFORMATION

U.S. Federal Regulations

<table>
<thead>
<tr>
<th>Chemical (&amp; CAS Number)</th>
<th>SARA 302 (EHS)TPQ</th>
<th>SARA 304 (EHS)Rq</th>
<th>SARA 313 de minimis</th>
<th>CERCLA Rq</th>
<th>CAA 112(r) TQ</th>
<th>RCRA Code</th>
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</thead>
<tbody>
<tr>
<td>none</td>
<td></td>
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All quantities in pounds

State Regulations

<table>
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<tr>
<th>Chemical (&amp; CAS Number)</th>
<th>CA Prop 65</th>
<th>MA RTK</th>
<th>MN RTK</th>
<th>NJ RTK</th>
<th>PA RTK</th>
<th>RI RTK</th>
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<tbody>
<tr>
<td>Acetaldehyde (75-07-0)*</td>
<td>X</td>
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<tr>
<td>Formaldehyde (50-00-0)*</td>
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*In trace amounts. WARNING: This product contains chemicals known to the State of California to cause cancer.

International Regulations

DSL (Canada): Components are listed.
EINECS: None.
WHMIS: D2B.

16 - OTHER INFORMATION

References

TLVs and BEIs, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Agents, ACGIH Worldwide, Cincinnati, 2007.

Glossary

ACGIH – American Conference of Governmental Industrial Hygienists
ASTM – American Society for Testing and Materials
ADR – Agreement on Dangerous Goods by Road (Europe)
BOD5 – Biological Oxygen Demand in 5 days
CAA – Clean Air Act
CAS – Chemical Abstracts Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensations, and Liability Act
CFR – Code of Federal Regulations
CWA – Clean Water Act
DOT – Department of Transportation
DSCL – Dangerous Substances Classification and Labeling (Europe)
DSL – Domestic Substance List (Canada)
EEC/EU – European Economic Community/European Union
EINECS – European Inventory of Existing Commercial Chemical Substances
HCS – Hazard Communication System
HMIS – Hazardous Material Information System
IARC – International Agency for Research on Cancer
LD50/LC50 – Lethal Dose/Concentration kill 50%
LDLo/LCLo – Lowest Published Lethal Dose/Concentration
NFPA – National Fire Prevention Association
NIOSH – National Institute for Occupational Safety & Health
NFPA – National Fire Prevention Association
Osha – Occupational Safety & Health Administration
PEL – Permissible Exposure Limit
RCRA – Resource Conservation and Recovery Act
SARA – Superfund Amendments and Reorganization Act
STEL – Short Term Exposure Limit (15 minutes)
TDG – Transportation of Dangerous Goods (Canada)
TLV-TWA – Threshold Limit Value-Time Weighted Average
TSCA – Toxic Substances Control Act
WHMIS – Workplace Hazardous Material Information System

Notice to Reader
To the best of our knowledge, the information contained herein is accurate. However, neither the above named manufacturer nor any of its subsidiaries assumes any liability whatsoever for accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

END OF MSDS DOCUMENT