TITEBOND WOOD GLUE (2213)

SECTION 1

PRODUCT NAME: TITEBOND WOOD GLUE
CHEMICAL FAMILY: Polyvinyl alcohol ester blend with polyvinyl acetate.
MFG. CODE: 2213
SALES CODE(S): 5061, 5062, 5063, 5064, 5065, 5066, 5067
DIVISION: Construction Adhesives & Sealants

SECTION 2

HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>WT</th>
<th>OSHA TWA</th>
<th>OSHA Ceiling</th>
<th>ACGIH TLV</th>
<th>ACGIH STEL</th>
<th>SEC.313</th>
</tr>
</thead>
<tbody>
<tr>
<td>VINYL ACETATE</td>
<td>108-05-4</td>
<td>0.4</td>
<td>10 ppm</td>
<td>NA</td>
<td>20 ppm</td>
<td>20 ppm</td>
<td>Yes</td>
</tr>
</tbody>
</table>

SECTION 3

PHYSICAL DATA (TYPICAL)

- BOILING POINT: 212°F
- VISCOSITY (cps.): 3200
- VAPOR DENSITY (Air = 1): <1
- SOLUBILITY IN WATER: Miscible
- SPECIFIC GRAVITY (H2O = 1): 1.09
- PERCENT VOLATILE (Wt.%): 54
- EVAPORATION RATE (N-BUTYL = 1): 1
- pH: 4.5
- APPEARANCE: Light yellow opaque liquid.
- ODOR: Faint characteristic odor.

SECTION 4

FIRE AND EXPLOSION HAZARD DATA

- FLASH POINT (Test Method): >200°F (Setaflash)
- FLAMMABILITY LIMITS: NA
- EXTINGUISING MEDIA: Water for dried adhesive
- SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH/MSHA approved self contained breathing apparatus (schedule 13)
- UNUSUAL FIRE & EXPLOSION HAZARDS: None

SECTION 5

HEALTH HAZARD DATA

- ROUTES OF ENTRY: INGESTION: No, INHALATION: Yes, SKIN: No
- POSSIBLE EFFECTS OF EXPOSURE: SKIN CONTACT: Will not be absorbed through the skin. In rare cases may cause a skin irritation.
  EYE CONTACT: Irritation

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SECTION 5

HEALTH HAZARD DATA CONT'D

INHALATION

No known adverse effects from the use of this product at room temperature. Heating of this product may result in increased exposure to residual monomer vapors. Inhalation of vapors can cause irritation of the upper respiratory. Overexposure may cause irritation of the upper respiratory tract and dizziness.

Effects not determined.

INGESTION

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

CARCINOGENICITY

NOTE

IARC Monographs: Yes
NTF: No
OSHA Regulated: No

IARC has listed vinyl acetate as possibly carcinogenic to humans (based on inadequate human data & limited animal data). Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans; available evidence suggest that the agent is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure; A3, animal carcinogen, ACGIH.

REPRODUCTIVE TOXICITY

WARNING

Not applicable

SECTION 6

EMERGENCY AND FIRST AID PROCEDURES

*CONSULT PHYSICIAN IN ALL CASES*

SKIN

EYES

Rinse with running water for fifteen minutes.

INGESTION

Do not induce vomiting.

INHALATION

Remove patient to fresh air.

SECTION 7

REACTIVITY DATA

PRODUCT STABILITY

Stable

Conditions to Avoid

None

CHEMICAL INCOMPATIBILITY

Strong acids and strong bases

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon and monomer when burned

HAZARDOUS POLYMERIZATION

Will not occur

Conditions to Avoid

None

SECTION 8

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Wear suitable NIOSH/MSHA approved respirator where exposure limits are exceeded.

VENTILATION - Local Exhaust

At point where product is dried. Standard plant ventilation otherwise.

- Mechanical (Gen).. Yes
- Special........ No
SECTION 8  SPECIAL PROTECTION INFORMATION

- Other .................. No

PROTECTIVE GLOVES ............... Where repeated and prolonged contact can occur, the use of impervious gloves is recommended.

EYE PROTECTION ................. Splashproof safety eye protection

OTHER PROTECTIVE EQUIPMENT ...... None

SECTION 9  SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCEDURES....... Clean up with suitable absorbent and place in an approved container. If product has dried, scrape up and place in approved container.

WASTE DISPOSAL METHOD ......... Disposal of product should comply with all applicable federal, state and local regulations.

CONTAINER DISPOSAL ............. Disposal of container should comply with all applicable federal, state and local regulations.

SECTION 10  SPECIAL PRECAUTIONS

SPECIAL HANDLING ............... None

KEEP FROM FREEZING .............. Yes. Product is freeze/thaw stable for five cycles.

KEEP OUT OF REACH OF CHILDREN... Yes

SECTION 11  REGULATORY INFORMATION

NEW JERSEY ...................... Polyvinyl acetate emulsion 108-05-4
Water 7732-18-5
Polyvinyl alcohol 25213-24-5
Defoamer (no CAS#)
Trade Secret 00100233-5015p

CALIFORNIA PROPOSITION 65...... The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product may contain the following chemicals, "known to the State to cause cancer": acrylamide (<.02%), acetaldehyde (.03%) and arsenic (<.0005%).

CALIFORNIA RULE 1168 .......... Calculated VOC (less water) = 10.7 g/l

HMIS RATING ..................... Health 1
Flammability 0
Reactivity 0
Protective Equipment See Section 8
Notice: While the information and recommendations set forth herein are believed to be accurate as of the data hereof, Franklin International makes no warranty express or implied, with respect thereto and disclaims all liability from reliance thereon.