

Franklin International

MATERIAL SAFETY DATA SHEET

MSDS Name: TITEBOND II PREMIUM WOOD GLUE
MSDS Number: 5003
Version Number: 8/25/95
MSDS Date: 022396
Page Number: 1

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: TITEBOND II PREMIUM WOOD GLUE
CAS Number: None
Hazard Rating: Health: 2 Fire: 0 Reactivity: 0
Company Identification: Franklin International, Inc.
2020 Bruck Street
Columbus OH 43207
Contact: Franklin Technical Service
Telephone/Fax: (800) 877-4583 (614) 445-1493
Emergency Phone (24 Hour): Franklin Security
(614) 445-1300
Chemtrec (24 Hour): (800) 424-9300
Product Class: CROSSLINK POLYVINYL ACETATE
Product Code: 4999
Division: Construction Adhesives & Sealants

SECTION II - COMPOSITION, INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	%
GLYCOL ETHER	112-34-5	0.33
VINYL ACETATE	108-05-4	0.05
FORMALDEHYDE	50-00-0	0.05

OSHA PELs & ACGIH TLVs are listed in Section VIII where applicable.
All components of this product are listed on the TSCA inventory except as exempted.

SECTION III - HAZARD IDENTIFICATION

NOTE:

This product contains residual vinyl acetate monomer at levels below OSHA reportable concentrations. The data in Section II is provided for informational purposes only.

This product contains formaldehyde at levels below OSHA reportable concentrations. The data in Section II is provided for informational purposes only. Refer to CFR 1910.1048 for guidance in evaluating and maintaining a safe work environment.

EMERGENCY OVERVIEW:

Yellow colored liquid. Non-flammable. Slippery in the wet state.

ROUTES OF ENTRY:

INHALATION: Yes
INGESTION: No
SKIN: No
EYE: Yes

INHALATION:

Contains residual vinyl acetate monomer and formaldehyde (See Section II).

May cause headaches and dizziness.
Vapors and/or aerosols which may be formed at elevated temperature may be irritating to eyes and respiratory tract.

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No reported incidents of adverse health affects resulting from inhalation of vapors at room temperature.

INGESTION:

No hazard expected in normal industrial use. Do not eat, drink or smoke around chemicals. Follow good hygiene practices.

SKIN:

Prolonged or repeated skin contact can cause irritation. Will not be absorbed through skin.

EYE:

Substance may cause moderate eye irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
None identified.

CARCINOGENICITY:

IARC: Yes, 2B (Vinyl Acetate)

Yes, 2A (Formaldehyde)

NTP: Yes, 2 (Formaldehyde)

OSHA: Yes, (Formaldehyde)

The International Agency for Research on Cancer has determined vinyl acetate to be carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that are not considered relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence suggests that the agent is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure. See Section II for vinyl acetate content.

Exposure to formaldehyde vapor has caused cancer in the respiratory system of rats. There is limited evidence to suggest that formaldehyde vapor may cause cancer in humans.

SECTION IV - FIRST AID MEASURES

INGESTION:

Call poison control center immediately. Follow their specific instructions. Do not induce vomiting. Aspiration into lungs may cause chemical pneumonitis.

SKIN:

Wash with soap and water. Contact a physician if irritation develops or persists.

EYE:

Hold eyelids apart and flush with plenty of water for at least 15 minutes. Seek medical attention.

SECTION V - FIRE-FIGHTING MEASURES

Flammability Class (OSHA)

IIIB

Flash Range:

> 200 F

Explosive Range:

Setaflash

Not applicable

EXTINGUISHING MEDIA:

Water if product has dried.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon and monomer may be released during combustion.

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FIRE FIGHTING PROCEDURES:

Wear a NIOSH/MSHA approved self-contained breathing apparatus.

SECTION VI - ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES:

Use suitable absorbent to dike the spill.

CLEAN-UP:

If possible pump liquid into an approved container or spread absorbent over spill and shovel (use non-sparking equipment) product/absorbent mixture into an approved container. If product has dried, scrape up and place in an approved container.

EMERGENCY MEASURES:

None required.

SECTION VII - HANDLING & STORAGE

HANDLING:

Wash thoroughly after handling.
Open container in well ventilated area.
Empty drums should be completely drained, properly bunged and promptly returned to a reconditioner, or properly disposed of.
Wash hands before eating.
Remove contaminated clothing and wash before reuse.
Use only in well ventilated area.
Follow all MSDS/label precautions even after container is emptied.
Containers may retain product residues and vapors.
Avoid prolonged or repeated contact with the skin.
Avoid breathing vapors from heated material.

STORAGE:

Keep from freezing.
Store at temperatures between 50 F and 90 F.

PRECAUTIONARY STATEMENT:

Keep out of the reach of children.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
GLYCOL ETHER	N/est	N/est	N/est	N/est	N/est
VINYL ACETATE	10.00 PPM	N/est	15.00 PPM	N/est	N/est
FORMALDEHYDE	N/est	0.30 PPM	N/est	2.00 PPM	0.75 PPM

ENGINEERING CONTROLS:

Use local exhaust as needed to maintain occupational exposure limits.
Maintain standard plant ventilation.

OTHER:

Facilities storing or utilizing any chemical should be equipped with an eyewash facility and a safety shower.

RESPIRATORY PROTECTION:

Where exposure limits are exceeded select a NIOSH/MSHA approved respirator with appropriate Protection Factor and cartridge for the specific contaminants. Follow requirements for respiratory protection in OSHA 1910.134.

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EYE PROTECTION:

Wear splashproof safety eye protection if splashing or misting of product may occur.

SKIN PROTECTION:

Where repeated or prolonged contact can occur, wear impervious gloves.

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

Form:	Liquid
Appearance/Color:	Cream
Odor:	Mild
Solubility (in water):	Dispersible in water
pH Value:	3.
Boiling Range:	210.°F
Evaporation Rate:	Faster than n-Butyl Acetate
% Volatile	52.%
Specific Gravity:	1.09044
VOC (California Rule 1168)	13.7 g/l

SECTION X - STABILITY & REACTIVITY

Stability:	This product is stable
Hazardous Polymerization:	Hazardous polymerization will not occur

CONDITIONS TO AVOID:

None.

INCOMPATIBILITY:

Strong acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon and monomer may be released during combustion.

SECTION XI - TOXICOLOGICAL INFORMATION

Irritation of the nose and throat has been observed in people exposed to formaldehyde vapor at levels in excess of 1 ppm. Normal breathing may be seriously impaired at levels above 10 ppm and serious lung damage can occur at levels above 50 ppm. Solutions of formaldehyde can irritate the skin and eyes. Lifetime inhalation of formaldehyde at airborne concentrations above 5 ppm have caused nasal tumors in experimental animals. However, epidemiology (human) studies failed to link cancer in humans with occupational exposure to formaldehyde.

Two year animal tests (inhalation) at 50, 200 and 600 ppm of vinyl acetate monomer have shown that some animals in the 600 ppm group developed tumors. There is no evidence of human carcinogenicity.

Acute and chronic health effects are not expected as long as good industrial hygiene and safety precautions are followed.

SECTION XII - ECOLOGICAL INFORMATION

This formulation has not been tested for environmental effects.

SECTION XIII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Disposal of this product must comply with all applicable federal, state and local regulations.

CONTAINER DISPOSAL:

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

SECTION XIV - TRANSPORT INFORMATION

UN Number	NOI
UN Pack Group	N/A
UN Class	N/A
ICAO/IATA Class	NON HAZARDOUS (*SEE NOTE)
IMDG Class	NON HAZ.
Shipping Name	
Shipping Name	MULTIBOND 2000
	BOXES ADHESIVES NOI

* Packaging is not approved for shipping by air. Please contact Franklin International for further information.

SECTION XV - REGULATORY INFORMATION

SARA TITLE III SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

CAS Number	Chemical Name	%
112-34-5	GLYCOL ETHER	0.33
108-05-4	VINYL ACETATE	0.05
50-00-0	FORMALDEHYDE	0.05

-PROP 65 (CARCINOGEN)

WARNING: This product contains a chemical known to the state of California to cause cancer.

CAS Number	Chemical Name	%
50-00-0	FORMALDEHYDE	0.05

PENNSYLVANIA:

Special hazardous components required to be listed at .01% or more: formaldehyde; formaldehyde; 50-00-0

Non-hazardous components required to be listed at 3% or more: polyvinyl acetate emulsion 113408-93-8; polyvinyl alcohol 25213-24-5

NEW JERSEY:

polyvinyl acetate emulsion 113408-93-8; water 7732-18-5; aluminum chloride 7784-31-6; polyvinyl alcohol 25213-24-5; n-methylolacrylamide 924-42-5

SECTION XVI - OTHER INFORMATION

REVISION SUMMARY:

MSDS revised to follow 16 section format.

DISCLAIMER:

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.