

Franklin International

MATERIAL SAFETY DATA SHEET

MSDS Name: TITEBOND SOLVENT FREE CONSTRUCTION ADHESIVE
MSDS Number: 7471
Version Number: 0001
MSDS Date: 080498
Page Number: 1

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: TITEBOND SOLVENT FREE CONSTRUCTION ADHESIVE
CAS Number: none
Hazard Rating: Health: 1 Fire: 0 Reactivity: 0
Company Identification: Franklin International
2020 Bruck Street
Columbus OH 43207
Contact: Franklin Technical Services
Telephone/Fax: (800) 877-4583 (614) 445-1493
Chemtrec (24 Hour): (800) 424-9300
Product Class: Solvent Free adhesive
Product Code: 3631
Division: Construction Adhesives & Sealants

SECTION II - COMPOSITION, INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	%
ETHYLENE GLYCOL	107-21-1	1.52
VINYL ACETATE	108-05-4	0.26

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:
Not applicable

EMERGENCY OVERVIEW:
Beige colored mastic. Non-flammable. Slippery in the wet state.

ROUTES OF ENTRY:
INHALATION: Yes
INGESTION: No
SKIN: No
EYE: Yes

INHALATION:
No hazard in normal industrial use.

INGESTION:
No hazard expected based on the product formula.

SKIN:
Prolonged or repeated skin contact can cause irritation.

EYE:
Mildly irritating to eyes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
None expected in normal industrial use.

CARCINOGENICITY:
IARC: Yes, 2B (vinyl acetate). See Section II.
NTP: No
OSHA: No

Franklin International

MATERIAL SAFETY DATA SHEET

MSDS Name: TITEBOND SOLVENT FREE CONSTRUCTION ADHESIVE
MSDS Number: 7471
Version Number: 0001
MSDS Date: 080498
Page Number: 2

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.

REPRODUCTIVE TOXICITY:
None anticipated based on product formula.

TARGET ORGANS:
Eyes and skin.

SECTION IV - FIRST AID MEASURES

INHALATION:
Remove patient to fresh air.

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:	Not Applicable
Explosive Range:	Not Applicable

EXTINGUISHING MEDIA:
Water if product has dried.

HAZARDOUS COMBUSTION PRODUCTS:
Oxides of carbon and monomer may be released during combustion.

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.

Franklin International

MATERIAL SAFETY DATA SHEET

MSDS Name: TITEBOND SOLVENT FREE CONSTRUCTION ADHESIVE
MSDS Number: 7471
Version Number: 0001
MSDS Date: 080498
Page Number: 3

SECTION VII - HANDLING & STORAGE

HANDLING:

Do not get material in eyes.
Wash hands before eating.
Avoid prolonged or repeated contact with the skin.

STORAGE:

Keep from freezing.

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
ETHYLENE GLYCOL	N/est	50.00 PPM	N/est	N/est	N/est
VINYL ACETATE	10.00 PPM	N/est	15.00 PPM	N/est	N/est

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 containments. Follow requirements for respiratory protection in OSHA 1910.134.

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: mastic
Appearance/Color: beige
Odor: mild
Solubility (in water): miscible
pH Value: 5.
Boiling Range: 212.°F
Evaporation Rate: Faster than n-Butyl Acetate
% Volatile: 25.%
Specific Gravity: 1.43
VOC (California Rule 1168) 6.6 g/l

SECTION X - STABILITY & REACTIVITY

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

CONDITIONS TO AVOID:

None.

Franklin International

MATERIAL SAFETY DATA SHEET

MSDS Name: TITEBOND SOLVENT FREE CONSTRUCTION ADHESIVE
MSDS Number: 7471
Version Number: 0001
MSDS Date: 080498
Page Number: 4

INCOMPATIBILITY:
Strong acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS:
Not applicable

SECTION XI - TOXICOLOGICAL INFORMATION

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.

Ethylene glycol can irritate the eyes and skin. Prolonged overexposure via inhalation can cause pulmonary edema plus liver and kidney damage. The central nervous system may be affected exhibiting dizziness, weakness, nausea and headache. Brain damage has resulted in humans from swallowing lethal or near lethal amounts of ethylene glycol. Ethylene glycol causes birth defects in experimental animals. Tests for carcinogenicity in experimental animals are negative.

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

SECTION XIV - TRANSPORT INFORMATION

UN Number	NONE
UN Pack Group	N/A
UN Class	NONE
ICAO/IATA Class	NON-HAZARDOUS (* SEE NOTE)
IMDG Class	NON-HAZARDOUS
Shipping Name	NOT APPLICABLE
Shipping Name	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	%
107-21-1	ETHYLENE GLYCOL	1.52
108-05-4	VINYL ACETATE	0.26

Franklin International MATERIAL SAFETY DATA SHEET

MSDS Name: TITEBOND SOLVENT FREE CONSTRUCTION ADHESIVE
MSDS Number: 7471
Version Number 0001
MSDS Date: 080498
Page Number: 5

PENNSYLVANIA:

Special hazardous component required to be listed at .01% or more:

formaldehyde; formaldehyde; 50-00-0

Hazardous components required to be listed at 1% or more:

crystalline silica; quartz; 14808-60-7

kaolin clay; kaolin; 1332-58-7

ethylene glycol; 1,2-ethandiol; 107-21-1

Non-hazardous components required to be listed at 3% or more:

polyvinyl acetate emulsion 24980-61-8; dipropylene glycol dibenzoate

27138-31-4; water 7732-18-5; vinyl acetate/ethylene copolymer

24937-78-8

NEW JERSEY:

crystalline silica 14808-60-7; clay 1332-56-7; water 7732-18-5;

polyvinyl acetate emulsion 24980-61-8; vinyl acetate/ethylene

copolymer 24937-78-8

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.