

Franklin International

MATERIAL SAFETY DATA SHEET

MSDS Name: TITEBOND HEAVY DUTY CONSTRUCTION ADHESIVE
MSDS Number: 5261
Version Number: 01
MSDS Date: 021798
Page Number: 1

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: TITEBOND HEAVY DUTY CONSTRUCTION ADHESIVE
CAS Number: none
Hazard Rating: Health: 2 Fire: 3 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 mastic
Product Code: 3195

Division: Construction Adhesives & Sealants

SECTION II - COMPOSITION, INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	%
ACETONE	67-64-1	13.35
HEXANE	110-54-3	13.18
TOLUENE	108-88-3	8.31

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:

Repeated and prolonged overexposure to the mixture of solvent(s) listed in Section II can result in systemic effects including permanent brain, nervous system, liver, and kidney damage. Intentional misuse by deliberately concentrating & inhaling the contents may be harmful or fatal.

EMERGENCY OVERVIEW:

Product is a beige, medium viscosity mastic.
DANGER: EXTREMELY FLAMMABLE, VAPOR HARMFUL. CONTAINS ACETONE, TOLUENE AND HEXANE. Vapors can cause flash fire. Vapors can ignite explosively. Prevent buildup of vapors by opening all windows and doors to create cross-ventilation. Keep away from heat, sparks and open flame. Do not smoke. Turn off stoves, heaters and sparking electric motors. Keep container tightly closed when not in use. Avoid prolonged breathing of vapor. KEEP OUT OF THE REACH OF CHILDREN.

ROUTES OF ENTRY:

INHALATION: Yes
INGESTION: No
SKIN: Yes

EYE: Yes

INHALATION:

Avoid breathing vapor or mists.
May cause headaches and dizziness.
High vapor concentrations are irritating to the nose, throat and lungs and can cause systemic effects.
Prolonged or repeated inhalation may cause lung damage.
May cause allergic reaction.

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Vapors can readily accumulate in confined or poorly ventilated areas.

INGESTION:

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

SKIN:

May be harmful if absorbed through skin, may produce kidney, liver and central nervous system damage.
A single exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

EYE:

Substance may cause severe eye irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Medical conditions associated with target organs may be aggravated by exposure.

CARCINOGENICITY:

IARC: No
NTP: No
OSHA: No

TARGET ORGANS:

Prolonged or repeated overexposure may cause eye, skin, respiratory system, central nervous system, peripheral nervous system, liver and kidney damage.

SECTION IV - FIRST AID MEASURES

INHALATION:

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen by trained personnel.

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)	IB
Flash Range:	Less than 0 F
	Setaflash
Explosive Range:	Lower explosive limit 1.2%
	Upper explosive limit 12.8%

Flammable liquid. Can form explosive mixtures at temperatures at or above the flashpoint

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this product.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon may be released during combustion.

FIRE FIGHTING PROCEDURES:

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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:

Isolate hazard area. Keep unnecessary and unprotected personnel from entering area. Wear all appropriate personal protection equipment (PPE) (see Section VIII).

SECTION VII - HANDLING & STORAGE

HANDLING:

Open container in well ventilated area.
Avoid breathing vapors from the headspace of containers.
Empty drums should be completely drained, properly bunged and promptly returned to a reconditioner, or properly disposed of.
Keep lid closed when not in use.
Wash hands before eating.
Remove contaminated clothing and wash before reuse.
Use only in well ventilated area.
Always use with positive cross-ventilation.
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.

STORAGE:

Keep away from sources of ignition.
Do not store above 110°F. Store large quantities in buildings designed & protected for storage of NFPA Class 1-B flammable materials.

PRECAUTIONARY STATEMENT:

Keep out of the reach of children.

DANGER: EXTREMELY FLAMMABLE, VAPOR HARMFUL. Vapors can cause flash fire. Contains acetone, toluene and hexane. Vapors may ignite explosively. Prevent buildup of vapors by opening all windows and doors to create cross-ventilation. Keep away from heat, sparks and open flame. Do not smoke. Turn off stoves, heaters and sparking electric motors. Keep away from all sources of ignition until all vapors are gone. Keep container tightly closed when not in use. Avoid prolonged breathing of vapor. **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
ACETONE	750.00 PPM	N/est	1000.00 PPM	N/est	1000.00 PPM
HEXANE	50.00 PPM	N/est	N/est	N/est	500.00 PPM
TOLUENE	50.00 PPM	N/est	N/est	N/est	200.00 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

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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.

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:	Beige
Odor:	Solvent
Solubility (in water):	Nil
pH Value:	Not Applicable
Boiling Range:	121.°F
Evaporation Rate:	Faster than n-Butyl Acetate
% Volatile	34.%
Specific Gravity:	1.08
VOC (California Rule 1168)	282 g/l

SECTION X - STABILITY & REACTIVITY

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

CONDITIONS TO AVOID:

Heat, sparks, open flame

INCOMPATIBILITY:

Water based materials

HAZARDOUS DECOMPOSITION PRODUCTS:

Not applicable

SECTION XI - TOXICOLOGICAL INFORMATION

Acetone - Acute:

Acetone has a low order of acute and inhalation toxicity. Acetone is a slight skin irritant and moderately severe eye irritant. Excessive inhalation can cause headache, drunkenness, and weakness.

Acetone - Chronic:

Kidney damage and anemia can result from sustained high level exposure. Acetone is reported to potentiate the liver toxicity of chloroform.

Hexane - Acute:

Ingestion of hexane can cause nausea, vomiting, stomach pain, and diarrhea. Hexane can irritate the skin and eyes. Acutely, the most common toxic effects are central nervous system depression and chemical pneumonitis resulting from aspiration into the lungs following ingestion.

Hexane - Chronic:

Dermal irritation and central nervous system depression accompanied by peripheral system damage (polyneuropathy) are common traits of sustained overexposure.

Toluene - Acute:

Toluene is a central nervous system depressant and skin and mucous membrane irritant. Severe dermatitis may result from its drying and defatting action. Toluene is an aspiration hazard causing chemical pneumonitis.

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Toluene - Chronic:

Toluene can cause cardiac sensitization. It is toxic to the kidney, liver and can cause effects on the blood system such as increased clotting time.

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 UN1133
UN Pack Group III
UN Class 3
ICAO/IATA Class 3, (see note *)
IMDG Class 3.1, pg 3102
Shipping Name ADHESIVES, containing a flammable liquid
Shipping Name BXS, ADHESIVES, III (LTD QTY)

* 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	%
110-54-3	HEXANE	13.18
108-88-3	TOLUENE	8.31

-PROP 65 (TERATOGEN)

WARNING: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

CAS Number	Chemical Name	%
108-88-3	TOLUENE	8.31

PENNSYLVANIA:

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

acetone; 2-propanone; 67-64-1
toluene; benzene, methyl-; 108-88-3
kaolin clay; kaolin; 1332-58-7
hexane; hexane; 110-54-3

crystalline silica; quartz; 14808-60-7

Non-hazardous ingredients required to be listed at 3%:

petroleum hydrocarbon resin 68131-99-7; petroleum hydrocarbon resin 68132-00-3; styrene-butadiene rubber 9003-55-8

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NEW JERSEY:

clay 1332-58-7, petroleum hydrocarbon resin 68131-99-7,
styrene-butadiene rubber 9003-55-8, acetone 67-64-1, hexane 110-54-3

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.