Franklin International
MATERIAL SAFETY DATA SHEET

MSDS Name: Titebond Fast Dry Contact Cement
MSDS Number: 5185
Revision Date: 10/25/04

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Titebond Fast Dry Contact Cement
CAS Number:	none
HMIS 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
Emergency Phone (24 Hour):	Franklin Security (614) 445-1300
Chemtrec (24 Hour):	(800) 424-9300
Chemtrec International:	(703) 527-3887
Product Class	SOLVENT BASED
Product Use:	solvent based contact cement
Product Code:	1121
Division:	Construction Adhesives & Sealants

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	Percent
toluene	108-88-3	50.00
Aliphatic hydrocarbon	64742-89-8	26.00
ethyl acetate	141-78-6	8.00

OSHA PELs & ACGIH TLVs are listed in Section 8 where applicable.

SECTION 3 - HAZARD IDENTIFICATION

NOTE:
Repeated and prolonged overexposure to the mixture of solvents listed in Section 2 can result in systemic effects including nervous system, liver, and kidney damage. Intentional misuse by deliberately

concentrating and inhaling the contents may be harmful or fatal.
EMERGENCY OVERVIEW:
Syrupy, light tan liquid with a strong solvent odor. CAUTION: FLAMMABLE. VAPOR HARMFUL. Contains toluene, aliphatic hydrocarbons and ethyl acetate. Use only with positive cross-ventilation. Keep away from heat, sparks, and open fire. KEEP OUT OF THE REACH OF CHILDREN. Material is extremely slippery in the wet state.
ROUTES OF ENTRY:
Ingestion: Yes
Inhalation: Yes
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.
Vapors can readily accumulate in confined or poorly ventilated areas.
INGESTION:
No hazard expected in normal industrial use.
SKIN:
Prolonged or repeated skin contact can cause irritation and defatting of the 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
REPRODUCTIVE TOXICITY:
Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans.
TARGET ORGANS:
Prolonged or repeated overexposure may cause eye, skin, respiratory system, central nervous system, liver, and kidney damage.
Repeated overexposure to toluene may cause liver damage.
High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness).

SECTION 4 - FIRST AID MEASURES

INHALATION:
Remove to fresh air. If difficulty persists, seek medical attention.
INGESTION:
Call poison control center immediately. Follow their specific instructions. Do not induce vomiting.
SKIN:
Remove contaminated clothing. 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 5 - FIRE-FIGHTING MEASURES

Flammability Class (OSHA)	IB
Flash Point:	24 F Setaflash
Explosive Range:	Not Available

Flammable liquid. Can form explosive mixtures at temperatures at or above the flashpoint
EXTINGUISHING MEDIA:
Use a NFPA Class B fire extinguisher (carbon dioxide, all purpose dry chemical, or alcohol foam) designed to extinguish flammable liquid fires.
FIRE FIGHTING PROCEDURES:
Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat.
Can burn in a fire, releasing toxic vapors.
Wear a NIOSH approved self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES:
Use inert absorbent to dike the spill. Keep away from drains.
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 and shut off all sources of ignition. Keep unnecessary and unprotected personnel from entering area. Wear all appropriate personal protective equipment (PPE)(see Section 8).

SECTION 7 - HANDLING AND STORAGE

HANDLING:
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.
STORAGE:
Keep away from sources of ignition.
Keep away from food and drinking water.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION
Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
toluene	50.00 PPM	N/est	N/est	N/est	200.00 PPM
Aliphatic hydrocarbon	N/est	N/est	N/est	N/est	50.00 PPM
ethyl acetate	400.00 PPM	N/est	N/est	N/est	400.00 PPM

The Manufacturer Recommended exposure limit for aliphatic hydrocarbon is 400 ppm.
The OSHA Ceiling for toluene is 300 ppm.
ENGINEERING CONTROLS:
Use local exhaust as needed to maintain occupational exposure limits.
OTHER:
Facilities storing or utilizing any chemical should be equipped with an eyewash facility and a safety shower.
RESPIRATORY PROTECTION:
Where exposure limits may be exceeded select a NIOSH approved respirator with appropriate Protection Factor and cartridge for the specific contaminents. Follow requirements for respiratory protection in OSHA 1910.134.
EYE PROTECTION:
Chemical splash goggles (ANSI Z87.1 or approved equivalent).
SKIN PROTECTION:
Where repeated or prolonged contact can occur, wear chemical resistant gloves.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Appearance/Color:	Light tan
Odor:	Strong solvent odor
Solubility (in water):	Nil
pH Value:	Not Applicable

Boiling Range/Point:	168.øF - 435.øF
Evaporation Rate:	Faster than n-Butyl Acetate
% Volatile:	84.%
Specific Gravity:	0.88
VOC:	701 g/l

SECTION 10 - STABILITY AND REACTIVITY

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

CONDITIONS TO AVOID:
Heat, sparks, open flame
INCOMPATIBLITY:
Strong acids or alkaline materials.
HAZARDOUS DECOMPOSITION PRODUCTS:
Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

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.
Toluene - Chronic:
Toluene can cause cardiac sensitization. It is toxic to the kidney, liver can cause effects on the blood system such as increased clotting time.
Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans.

SECTION 12 - ECOLOGICAL INFORMATION

This formulation has not been tested for environmental effects.

SECTION 13 - 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 14 - TRANSPORT INFORMATION

UN Number	UN1133
UN Pack Group	III
UN Class	3
ICAO/IATA Class	3
IMDG Class	3
Shipping Name	Adh containing a Flammable Liquid,limited quantity

Packaging may not be approved for shipping by air. Please contact Franklin International for further information.

SECTION 15 - 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:

Chemical Name	CAS Number	Percent
toluene	108-88-3	50.00

- PROP 65 (TERATOGEN)
WARNING: This product contains a chemical known to the state of Caifornia to cause birth defects or other reproductive harm.

Chemical Name	CAS Number	Percent
toluene	108-88-3	50.00

TSCA (Toxic Substances Control Act Inventory):
All components of this product are listed on the TSCA inventory except as exempted.
PENNSYLVANIA:
Hazardous components required to be listed at 1% or more:
toluene; 108-88-3
NEW JERSEY:
toluene 108-88-3, aliphatic hydrocarbon 64742-89-8, polychloroprene rubber 9010-98-4, ethyl acetate 141-78-6, phenolic resin 25085-50-1

SECTION 16 - OTHER INFORMATION

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.