

Franklin International  
MATERIAL SAFETY DATA SHEET

MSDS Name: Titebond Liquid Hide Glue  
MSDS Number: 5014  
Revision Date: 6/14/04

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Titebond Liquid Hide Glue  
CAS Number: none  
HMIS Hazard Rating: Health: 1 Fire: 1 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: Protein dispersion  
Product Use: wood glue  
Product Code: 1103

Division: Construction Adhesives & Sealants

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	Percent
ammonium thiocyanate	1762-95-4	8.30
dicyandiamide	461-58-5	3.70

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

SECTION 3 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

An amber colored liquid with little odor. Slippery in the wet state.

ROUTES OF ENTRY:

Inhalation: yes  
Ingestion: yes  
Skin: no  
Eye: yes

INHALATION:

May be irritating to upper respiratory tract.

**INGESTION:**

Single dose oral toxicity is considered to be extremely low. No hazards expected from swallowing small amounts incidental to normal handling operations. Ingestion may cause gastrointestinal irritation.

**SKIN:**

Prolonged or repeated skin contact can cause irritation.

**EYE:**

Mildly irritating to eyes.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

None expected in normal use.

**CARCINOGENICITY:**

IARC: No

NTP: No

OSHA: No

**REPRODUCTIVE TOXICITY:**

None anticipated based on product formula.

**TARGET ORGANS:**

Target organs: eyes, skin, and respiratory system.

**SECTION 4 - FIRST AID MEASURES**

**INHALATION:**

Remove to fresh air. If difficulty persists, seek medical attention.

**INGESTION:**

If swallowed, call poison control center immediately. Follow their specific instructions. Do not induce vomiting.

**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 5 - FIRE-FIGHTING MEASURES**

Flammability Class (OSHA) IIIB

Flash Point: > 200 F

Setaflash

Explosive Range: Not applicable

**EXTINGUISHING MEDIA:**

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

**HAZARDOUS COMBUSTION PRODUCTS:**

Not applicable (water based product). However, solid material will support combustion if water has evaporated.

**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 product/absorbent mixture into an approved container. If product has dried scrape up and place in an approved container.

EMERGENCY MEASURES:

None required.

SECTION 7 - HANDLING AND STORAGE

HANDLING:

Wash hands before eating.

STORAGE:

Keep from freezing. Best when stored above 40 F (4 C).

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
ammonium thiocyanate	N/est	N/est	N/est	N/est	N/est
dicyandiamide	N/est	N/est	N/est	N/est	N/est

ENGINEERING CONTROLS:

Natural ventilation should be adequate under normal conditions.

Maintain standard plant ventilation.

OTHER:

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

RESPIRATORY PROTECTION:

Respiratory protection is not expected to be necessary under normal use. Follow requirements for respiratory protection in OSHA 1910.134.

EYE PROTECTION:

Chemical splash goggles (ANSI Z87.1 or approved equivalent).

SKIN PROTECTION:

Where skin contact can occur, wear impervious gloves.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Appearance/Color:	Amber
Odor:	Slight
Solubility (in water):	Complete
pH Value:	6.5
Boiling Range/Point:	212.0F
Evaporation Rate:	Slower than n-Butyl Acetate
% Volatile:	48.0%

Specific Gravity: 1.15  
VOC: 0

#### SECTION 10 - STABILITY AND REACTIVITY

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

#### CONDITIONS TO AVOID:

High temperatures promote hydrolysis.

#### INCOMPATIBILITY:

Strong acids and strong bases

#### SECTION 11 - TOXICOLOGICAL INFORMATION

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

#### 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	none
UN Pack Group	N/A
UN Class	Nonhaz
ICAO/IATA Class	Nonhazardous
IMDG Class	Nonhazardous
Shipping Name	Nonhazardous

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

#### SECTION 15 - REGULATORY INFORMATION

##### 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:

ammonium thiocyanate; thiocyanic acid, ammonium salt; 1762-95-4

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

dicyandiamide 461-58-5; hide glue 9007-34-5; water 7732-18-5

NEW JERSEY:

powdered hide glue 9007-34-5; water 7732-18-5; ammonium thiocyanate

1762-95-4; dicyandiamide 461-58-5; polyalkene glycol 9038-95-3

## 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.