# **Franklin International**

# Safety Data Sheet

**Titebond Liquid Hide Glue** 

# **Section 1. Identification**

GHS product identifier	:	Titebond Liquid Hide Glue
Physical state	:	Liquid.
Address	:	Franklin International 2020 Bruck Street Columbus OH 43207
Contact person	1	Franklin Technical Services
Telephone	1	(800) 877-4583
In case of emergency	:	Franklin Security (614) 445-1300
e-mail address of person responsible for this SDS	:	SDS@FranklinInternational.com
Reference number	:	1103
Product code	:	5017
Date of revision	:	1/29/2020
Safety Data Sheets are available online at	:	www.FranklinInternational.com
Chemtrec (24 Hour)	:	(800) 424 - 9300
Chemtrec International	:	+1 703-741-5970
Chemical family	:	Adhesive.

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard
Classification of the substance or mixture	(29 CFR 1910.1200). : EYE IRRITATION - Category 2B
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 48% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 51.6% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 51.6%
GHS label elements	
Signal word	: Warning
Hazard statements	: Causes eye irritation.
Precautionary statemer	<u>its</u>
Prevention	: Wash hands thoroughly after handling.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Not applicable.
Disposal	: Not applicable.
Date of issue/Date of revision	: 1/29/2020 Version : 1.01 1/10

# Section 2. Hazards identification

Hazards not otherwise classified

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
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Ingredient name	%	CAS number
ammonium thiocyanate	≤5	1762-95-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

# Description of necessary first aid measures

Date of issue/Date of revision	: 1/29/2020 Version : 1.01	2/10
Inhalation	: No specific data.	
Eye contact	: Adverse symptoms may include the following: irritation watering redness	
Over-exposure signs/sy Eye contact		
Ingestion	: No known significant effects or critical hazards.	
Skin contact	: No known significant effects or critical hazards.	
Inhalation	: No known significant effects or critical hazards.	
Eye contact	: Causes eye irritation.	
Potential acute health e	ects	
Most important symptom	effects, acute and delayed	
Ingestion	<ul> <li>Flush containinated skin with plenty of water. Remove containinated clothing and shoes. Get medical attention if needed. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> <li>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air ar keep at rest in a position comfortable for breathing. If material has been swallowed a the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse head effects persist or are severe. Never give anything by mouth to an unconscious person if unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistban</li> </ul>	and De alth on.
Inhalation Skin contact	<ul> <li>Remove victim to fresh air and keep at rest in a position comfortable for breathing. I not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person provi aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health eff persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a col tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medica surveillance for 48 hours.</li> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and</li> </ul>	ding ects lar,
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.</li> </ul>	

# Section 4. First aid measures

Skin contact	No specific data.	
Ingestion	No specific data.	
Indication of immediate me	attention and special treatment ne	eded, if necessary
Notes to physician		n products in a fire, symptoms may be delayed. kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment.	
Protection of first-aiders		y personal risk or without suitable training. It may g aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up		
Small spill	•	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Section 6. Accidental release measures

# Large spill Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling		
Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avec contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the origin container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardow Do not reuse container.	al
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.	re
Conditions for safe storage, including any incompatibilities	Do not store below the following temperature: 4.4444 to 32.222°C (40 to 90°F). Store accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment avoid environmental contamination. See Section 10 for incompatible materials before handling or use.	or o to

# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name		Exposure limits	
ammonium thiocyanate		OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.	
		TWA: 5 mg/m³, (as CN) 8 hours. <b>OSHA PEL (United States, 5/2018). Absorbed through skin.</b> TWA: 5 mg/m³, (as CN) 8 hours.	
Appropriate engineering controls	: Good general contaminants.	ventilation should be sufficient to control worker exposure to airborne	
Environmental exposure controls	they comply wi cases, fume so	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Individual protection measured	<u>ures</u>		
Hygiene measures	eating, smokin Appropriate teo Wash contami	orearms and face thoroughly after handling chemical products, before g and using the lavatory and at the end of the working period. chniques should be used to remove potentially contaminated clothing. nated clothing before reusing. Ensure that eyewash stations and safety ose to the workstation location.	

# Section 8. Exposure controls/personal protection

	• •
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Amber.
Odor	: Characteristic. [Slight]
Odor threshold	: Not available.
рН	: 6.5
Melting point	: Not available.
Boiling point	: 100°C (212°F)
Flash point	: Closed cup: >93.3°C (>199.9°F) [Setaflash.]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
VOC (less water, less exempt solvents)	: 0 g/l
Volatility	: 48% (w/w)
Vapor density	: Not available.
Relative density	: 1.15
Solubility	: Soluble in the following materials: cold water and hot water.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

# Information on toxicological effects

# Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ammonium thiocyanate	LD50 Oral	Rat	750 mg/kg	-

# Irritation/Corrosion

Not available.

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

## **Carcinogenicity**

Not available.

### Reproductive toxicity

Not available.

### **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Not available.

## Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

Information on the likely	: Routes of entry anticipated: Oral.
routes of exposure	Routes of entry not anticipated: Dermal, Inhalation.

# Potential acute health effects

Eye contact	: Causes eye irritation.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: No known significant effects or critical hazards.	
Ingestion	: No known significant effects or critical hazards.	
Symptoms related to the u	ohysical, chemical and toxicological characteristics	

# Section 11. Toxicological information

		-
Eye contact	:	Adverse symptoms may include the following: irritation watering redness
Inhalation	1	No specific data.
Skin contact	1	No specific data.
Ingestion	:	No specific data.
Delayed and immediate effect	<u>ts:</u>	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	<u>ect</u>	<u>s</u>
Not available.		
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	1	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

# Numerical measures of toxicity

# Acute toxicity estimates

Route	ATE value
Oral	2500 mg/kg

# Section 12. Ecological information

# **Toxicity**

Product/ingredient name	Result	Species	Exposure
ammonium thiocyanate	Acute EC50 150 mg/l Acute EC50 3.56 mg/l Acute LC50 114 ppm Fresh water Chronic NOEC 3.56 mg/l	capricornutum Crustaceans - Daphnia	72 hours 48 hours 96 hours -

# Persistence and degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
ammonium thiocyanate	-2.29	-	low
Mobility in soil		•	

### Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Other adverse effects	: No known significant effects or critical hazards.
Date of issue/Date of revision	: 1/29/2020

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

# Section 15. Regulatory information

## U.S. Federal regulations

SARA 302/304

### Composition/information on ingredients

No products were found.

**SARA 304 RQ** 

: Not applicable.

## SARA 311/312

Classification : EYE IRRITATION - Category 2B

**Composition/information on ingredients** 

# Section 15. Regulatory information

Name	%	Classification
ammonium thiocyanate		ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE - Category 1
cyanoguanidine	≤5	COMBUSTIBLE DUSTS

### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	ammonium thiocyanate	1762-95-4	≤5
Supplier notification	ammonium thiocyanate	1762-95-4	≤5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### **State regulations**

Massachusetts	: The following components are listed: AMMONIUM THIOCYANATE
New York	: The following components are listed: Ammonium thiocyanate
New Jersey	<ul> <li>The following components are listed: AMMONIUM THIOCYANATE; THIOCYANIC ACID, AMMONIUM SALT</li> </ul>
Pennsylvania	: The following components are listed: THIOCYANIC ACID, AMMONIUM SALT
California Prop. 65	

## California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

## International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals	
Not listed.	

## **Montreal Protocol**

Not listed.

## Stockholm Convention on Persistent Organic Pollutants

Not listed.

# **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

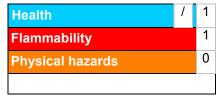
# Inventory list

China United States TSCA 8(b) inventory : All components are listed or exempted.

b) : All components are listed or exempted.

# Section 16. Other information

Hazardous Material Information System (U.S.A.)



# Section 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification		Justification
EYE IRRITATION - Category 2B		Expert judgment
<u>History</u>		
Date of printing	: 1/29/2020	
Date of issue/Date of revision	: 1/29/2020	
Date of previous issue	: 4/24/2018	
Version	: 1.01	
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>	
References	Not available.	

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.