# Franklin International

# **Safety Data Sheet**

# **Titebond Liquid Hide Glue**

# **Section 1. Identification**

GHS product identifier : Titebond Liquid Hide Glue

Physical state : I quid.

Address : Franklin International

2020 Bruck Street Columbus OH 43207

Contact person : Franklin Technical Services

**Telephone** : (800) 877-4583 **In case of emergency** : Franklin Security

(614) 445-1300

e-mail address of person responsible for this SDS

Reference number : 1103
Product code : 5014
Date of revision : 10/17/2022

Safety Data Sheets are available online at

: www.FranklinInternational.com

: SDS@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

Identified uses
Not applicable.

Uses advised against

Not applicable.

# Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture GHS label elements

: YE IRRITATION - Category 2B

Signal word : Warning

**Hazard statements** : Causes eye irritation.

**Precautionary statements** 

**Prevention**: Mash 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 advice or

attention.

Storage : Not applicable.

Disposal : Not applicable.

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Titebond Liquid Hide Glue

# Section 2. Hazards identification

Hazards not otherwise

: None known.

classified

# Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

: Not available.

: Mixture

Ingredient name	%	CAS number
mmonium 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 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

**Eve contact** 

: 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.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If 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 providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects 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 collar, 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 medical surveillance for 48 hours.

Skin contact

: Fush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if needed. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

Mash out mouth with water. Remove dentures if any. If material has been swallowed and 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 health 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 waistband.

## Most important symptoms/effects, acute and delayed

# Potential acute health effects

**Eye contact** : Causes eye irritation.

: No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion

## Over-exposure signs/symptoms

: Adverse symptoms may include the following: Eye contact

> irritation watering redness

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# Section 4. First aid measures

: No specific data. Inhalation Skin contact : No specific data. Ingestion : No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing 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

**Hazardous thermal** 

: In a fire or if heated, a pressure increase will occur and the container may burst.

: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

decomposition products

**Special protective actions** for fire-fighters

: 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.

**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

Fspecialized 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 nonemergency 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.

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# 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** 

: Fut on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original 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 hazardous. Do not reuse container.

Advice on general occupational hygiene

: Fating, 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.

Conditions for safe storage, including any incompatibilities

Do not store below the following temperature: 4.4444 to 32.22°C (40 to 90°F). Store in 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 to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
	OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 5 mg/m³, (as CN) 8 hours. OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 5 mg/m³, (as CN) 8 hours.

#### Biological exposure indices

No exposure indices known.

Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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 measures**

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# Section 8. Exposure controls/personal protection

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance** 

Flash point

**Physical state** : Liquid. Color : Amber.

Odor : Characteristic. [Slight]

: Not available. **Odor threshold** 

Hq 6.5

**Melting point/freezing point** : Not available. **Boiling point, initial boiling** : 100°C (212°F)

point, and boiling range

: Closed cup: >93.3°C (>199.9°F) [Setaflash] [Product does not sustain combustion.]

**Evaporation rate** : Not available. **Flammability** : Not available. : Not available. Lower and upper explosion

limit/flammability limit

VOC (less water, less : 0 g/l

exempt solvents)

**Volatility** : 48% (w/w)

Vapor pressure

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# Section 9. Physical and chemical properties

	Vapor Pressure at 20°C		Va	por pressur	e at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	23.8	3.2				

Relative vapor density : Not available.

Relative density : 1.15 Solubility(ies) :

Media	Result
øold water	Soluble
hot water	Soluble

Partition coefficient: n-

**Decomposition temperature** 

octanol/water

: Not applicable.

Auto-ignition temperature

Not applicable.
Not available.
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

**Viscosity** 

: 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

:  $\ensuremath{\overline{\mathsf{U}}}$ nder 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
mmonium 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)

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# **Section 11. Toxicological information**

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

**Information on the likely** : Routes of entry anticipated: Oral, Eyes.

routes of exposure Routes of entry not anticipated: Dermal, Inhalation.

Potential acute health effects

**Eye contact** : Causes eye irritation.

 Inhalation
 : Mo known significant effects or critical hazards.

 Skin contact
 : Mo known significant effects or critical hazards.

 Ingestion
 : Mo known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

irritation watering redness

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General
 Wo known significant effects or critical hazards.
 Carcinogenicity
 Mo known significant effects or critical hazards.
 Mutagenicity
 Mo known significant effects or critical hazards.
 Reproductive toxicity
 Mo known significant effects or critical hazards.

**Numerical measures of toxicity** 

## **Acute toxicity estimates**

Product/ingredient name	( 3	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/ l)
☑QUID HIDE GLUE ammonium thiocyanate	2500	N/A	N/A	N/A	N/A
	750	N/A	N/A	N/A	N/A

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# **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
mmonium thiocyanate	Acute EC50 150 mg/l	Algae - Selenastrum capricornutum	72 hours
	Acute EC50 3.56 mg/l Acute LC50 114 ppm Fresh water Chronic NOEC 3.56 mg/l	Crustaceans - Daphnia Fish - Gambusia affinis - Adult Crustaceans - Daphnia	48 hours 96 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
mmonium thiocyanate	-2.29	-	low

## **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

## **Disposal methods**

rhe 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	IATA
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.

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# **Section 14. Transport information**

# 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

Name	%	Classification
mmonium thiocyanate		ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE - Category 1

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	ammonium thiocyanate	1762-95-4	≤5
Supplier notification	mmonium 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
 New York
 Mone of the components are listed.
 New Jersey
 Mone of the components are listed.
 Pennsylvania
 Mone of the components are listed.

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 : All components are listed or exempted.

United States TSCA 8(b) : All components are active or exempted.

inventory

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# Section 16. Other information

## Procedure used to derive the classification

Classification	Justification
YE IRRITATION - Category 2B	Expert judgment

#### **History**

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**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate 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

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.

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