# Franklin International

# **Safety Data Sheet**

Titebond II Dark Wood Glue

### **Section 1. Identification**

| GHS product identifier                               | : Titebond II Dark Wood Glue                                       |
|--|--|
| Physical state                                       | : Liquid.  |
| Address  | : Franklin International<br>2020 Bruck Street<br>Columbus OH 43207 |
| Contact person                                       | : Franklin Technical Services                                      |
| Telephone  | : (800) 877-4583   |
| In case of emergency                                 | : Franklin Security<br>(614) 445-1300                              |
| e-mail address of person<br>responsible for this SDS | : SDS@FranklinInternational.com                                    |
| Reference number                                     | : 500006   |
| Product code   | : 3703   |
| Date of revision                                     | : 8/6/2018   |
| Safety Data Sheets are available online at           | : www.FranklinInternational.com                                    |
| Chemtrec (24 Hour)                                   | : (800) 424 - 9300   |
| Chemtrec International                               | : (703) 527 - 3887   |
| Chemical family                                      | : Adhesive.  |
| Relevant identified uses of t                        | he substance or mixture and uses advised against                   |

Identified uses

Industrial use wood glue.

Wide dispersive use of substances in professional and DIY adhesives.

# Section 2. Hazards identification

| OSHA/HCS status                            | : While this material is not considered hazardous by the OSHA Hazard Communication<br>Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the<br>safe handling and proper use of the product. This SDS should be retained and available<br>for employees and other users of this product. |
|--|---|
| Classification of the substance or mixture | : Not classified.   |
| GHS label elements                         |   |
| Signal word                                | : No signal word.   |
| Hazard statements                          | : No known significant effects or critical hazards.   |
| Precautionary statements                   |   |
| General                                    | <ul> <li>Refer to safety data sheet before use. Avoid contact with skin and clothing. Wash<br/>thoroughly after handling. Get medical attention if needed. Contact Franklin<br/>International Technical Service for additional information at 1-800-877-4583.</li> </ul>  |
| Prevention                                 | : Not applicable.   |
| Response                                   | : Not applicable.   |

# Section 2. Hazards identification

#### Storage

- Disposal
- : Not applicable.
- : Not applicable.
- Hazards not otherwise
- : None known.

### classified

# Section 3. Composition/information on ingredients

| ice/mixture |
|-------------|
|-------------|

| 100 C | Mixture  |
|---|----------|
|   | VIIALUIE |
|   |          |

| Ingredient name          | %  | CAS number |
|--------------------------|----|------------|
| aluminium chloride [Dry] | ≤3 | 7446-70-0  |

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** Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if needed. : Flush contaminated skin with plenty of water. Remove contaminated clothing and Skin contact shoes. Get medical attention if needed. Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if needed. Most important symptoms/effects, acute and delayed Potential acute health effects Eve contact : This product may irritate eyes upon contact. 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. Over-exposure signs/symptoms Eye contact : No specific data. Inhalation : No specific data. Skin contact : No specific data. Ingestion : No specific data. Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician quantities have been ingested or inhaled. Specific treatments : No specific treatment. **Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. 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<br>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:<br>carbon dioxide<br>carbon monoxide<br>halogenated compounds<br>metal oxide/oxides   |
| Special protective actions for fire-fighters   | <ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if<br/>there is a fire. No action shall be taken involving any personal risk or without suitable<br/>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, protec   | tive equipment and emergency procedures  |  |
|--------------------------------|--|--|
| For non-emergency<br>personnel | : No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Put on appropriate personal<br>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 co   | ntainment 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.  |  |
| Large spill                    | : Stop leak if without risk. Move containers from spill area. 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. 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).   |
|--|---|
| 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. |

### Section 7. Handling and storage

| Conditions for safe storage, | : Store between the following temperatures: 4.4444 to 32.222°C (40 to 90°F). Store in    |
|------------------------------|--|
| including any                | accordance with local regulations. Store in original container protected from direct     |
| incompatibilities            | 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                  | Exposu   | ire limits  |  |
|----------------------------------|--|---|--|
| aluminium chloride [Dry]         | TWA:<br>NIOSH  | PEL 1989 (United States, 3/1989). Notes: as Al<br>2 mg/m³, (as Al) 8 hours.<br>REL (United States, 10/2016). Notes: as Al<br>2 mg/m³, (as Al) 10 hours.   |  |
| Appropriate engineering controls | : Good general ventilation s contaminants.                 | hould be sufficient to control worker exposure to airborne  |  |
| Environmental exposure controls  | they comply with the requin<br>cases, fume scrubbers, fill | Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process equipment<br>will be necessary to reduce emissions to acceptable levels.                       |  |
| Individual protection meas       | ires   |   |  |
| Hygiene measures                 | eating, smoking and using<br>Appropriate techniques sh     | d face thoroughly after handling chemical products, before<br>the lavatory and at the end of the working period.<br>ould be used to remove potentially contaminated clothing.<br>ng before reusing. Ensure that eyewash stations and safety<br>vorkstation location.  |  |
| Eye/face protection              | assessment indicates this gases or dusts. If contact       | 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: safety glasses with side-shields. |  |
| Skin protection                  |  |   |  |
| Hand protection                  |  | vious gloves complying with an approved standard should be<br>adling chemical products if a risk assessment indicates this is   |  |
| Body protection                  |  | nent for the body should be selected based on the task being volved and should be approved by a specialist before   |  |
| Other skin protection            |  | any additional skin protection measures should be selected<br>erformed and the risks involved and should be approved by a<br>this product.  |  |
| Respiratory protection           | appropriate standard or ce                                 | potential for exposure, select a respirator that meets the<br>rtification. Respirators must be used according to a<br>ram to ensure proper fitting, training, and other important   |  |

### Section 9. Physical and chemical properties

#### **Appearance**

| Physical state                            | : Liquid.   |
|---|---|
| Color                                     | : Brown.  |
| Odor                                      | : Faint odor.   |
| Odor threshold                            | : Not available.  |
| рН  | : 4.8   |
| Melting point                             | : Not available.  |
| Boiling point                             | : 100°C (212°F)   |
| Flash point                               | : Closed cup: >93.3°C (>199.9°F) [Setaflash.]                   |
| VOC (less water, less<br>exempt solvents) | : 3 g/l   |
| Volatility                                | : 54.1% (w/w)   |
| Relative density                          | : 1.09  |
| Solubility                                | : Soluble in the following materials: cold water and hot water. |
|   |   |

### Section 10. Stability and reactivity

| : No specific test data related to reactivity available for this product or its ingredients.           |
|--|
| : The product is stable.   |
| : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| : No specific data.  |
| : No specific data.  |
| : 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 |
| aluminium chloride [Dry] | LD50 Oral | Rat     | 3450 mg/kg | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result   | Species                | Score | Exposure                               | Observation |
|-------------------------|--|------------------------|-------|--|-------------|
|                         | Skin - Severe irritant<br>Skin - Severe irritant<br>Skin - Severe irritant | Mouse<br>Pig<br>Rabbit | -     | 10 Percent<br>10 Percent<br>10 Percent | -<br>-<br>- |

: This product may irritate eyes upon contact.

#### **Conclusion/Summary**

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Eyes

Skin

- Respiratory
- : Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

#### Sensitization

Not available.

#### **Mutagenicity**

Not available.

### **Carcinogenicity**

# Section 11. Toxicological information

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: Inhalation. routes of exposure Routes of entry not anticipated: Oral, Dermal. Potential acute health effects Eye contact : This product may irritate eyes upon contact. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. : No known significant effects or critical hazards. Ingestion Symptoms related to the physical, chemical and toxicological characteristics Eye contact : No specific data. Inhalation : No specific data. Skin contact : No specific data. : No specific data. Ingestion 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 : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. **Mutagenicity** : No known significant effects or critical hazards. **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. **Fertility effects** : No known significant effects or critical hazards. Numerical measures of toxicity Acute toxicity estimates

Not available.

# Section 12. Ecological information

### **Toxicity**

| Product/ingredient name  | Result  | Species   | Exposure             |
|--------------------------|---|---|----------------------|
| aluminium chloride [Dry] | Acute EC50 10.02 mg/l Fresh water                                   | Algae - Desmodesmus<br>subspicatus  | 72 hours             |
|                          | Acute EC50 460 µg/l Fresh water                                     | Algae - Pseudokirchneriella subcapitata   | 96 hours             |
|                          | Acute EC50 1500 µg/l Fresh water                                    | Crustaceans - Ceriodaphnia<br>dubia - Neonate   | 48 hours             |
|                          | Acute LC50 3.65 mg/l Fresh water<br>Acute LC50 570 μg/l Fresh water | Daphnia - Daphnia pulex - Adult<br>Fish - Oncorhynchus mykiss -<br>Juvenile (Fledgling, Hatchling,<br>Weanling) | 48 hours<br>96 hours |

### Persistence and degradability

Not available.

### **Bioaccumulative potential**

Not available.

### Mobility in soil

| Soil/water partition<br>coefficient (Koc) | : Not available.                                    |
|---|---|
| Other adverse effects                     | : No known significant effects or critical hazards. |

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

# Section 14. Transport information

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

: Not applicable.

### **Composition/information on ingredients**

| Name                     | % | Classification  |
|--------------------------|---|---|
| aluminium chloride [Dry] |   | SKIN CORROSION - Category 1B<br>SERIOUS EYE DAMAGE - Category 1 |

#### **State regulations**

**Massachusetts** 

: The following components are listed: ALUMINUM CHLORIDE

**New York** 

: None of the components are listed.

**New Jersey** Pennsylvania

- : The following components are listed: ALUMINUM CHLORIDE : The following components are listed: ALUMINUM CHLORIDE
- California Prop. 65

None of the components are listed.

#### International regulations

**Chemical Weapon Convention List Schedules I, II & III Chemicals** 

Not listed.

### Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** Not listed.

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

Not listed.

**Inventory list** 

China

: Not determined.

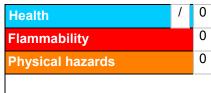
# Section 15. Regulatory information

United States TSCA 8(b) inventory

: All components are listed or exempted.

# Section 16. Other information

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



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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#### Procedure used to derive the classification

|                                | Classification   | Justification                                 |
|--------------------------------|--|---|
| Not classified.                |  |   |
| History                        |  |   |
| Date of printing               | : 8/6/2018   |   |
| Date of issue/Date of revision | : 8/6/2018   |   |
| Date of previous issue         | : 4/24/2018  |   |
| Version                        | : 1.01   |   |
| Key to abbreviations           | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification<br>IATA = International Air Transport Association<br>IBC = Internediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition con<br>MARPOL = International Convention for the Preventia<br>as modified by the Protocol of 1978. ("Marpol" = mar | efficient<br>on of Pollution From Ships, 1973 |

# Section 16. Other information

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.